

FIG 1

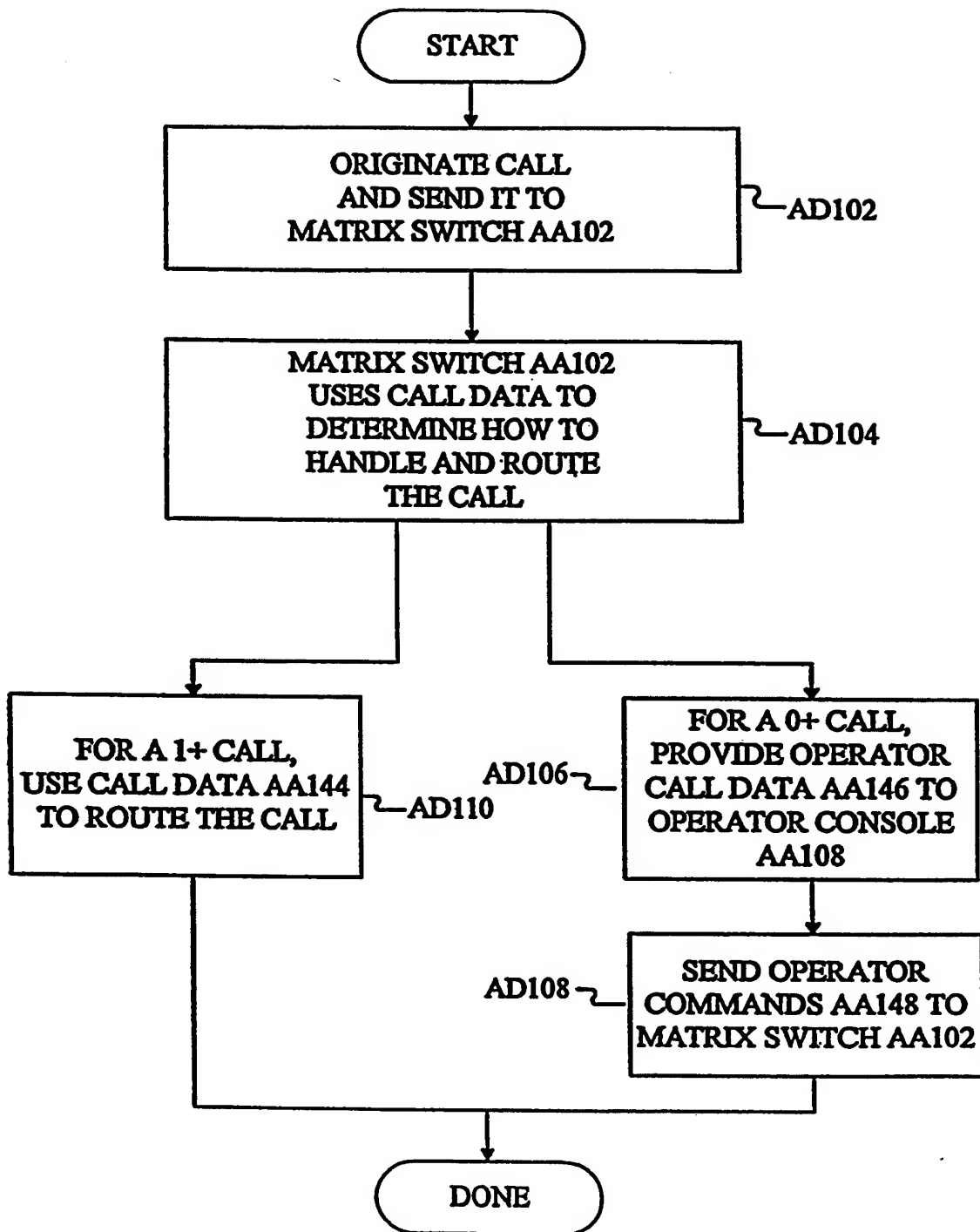


FIG 2

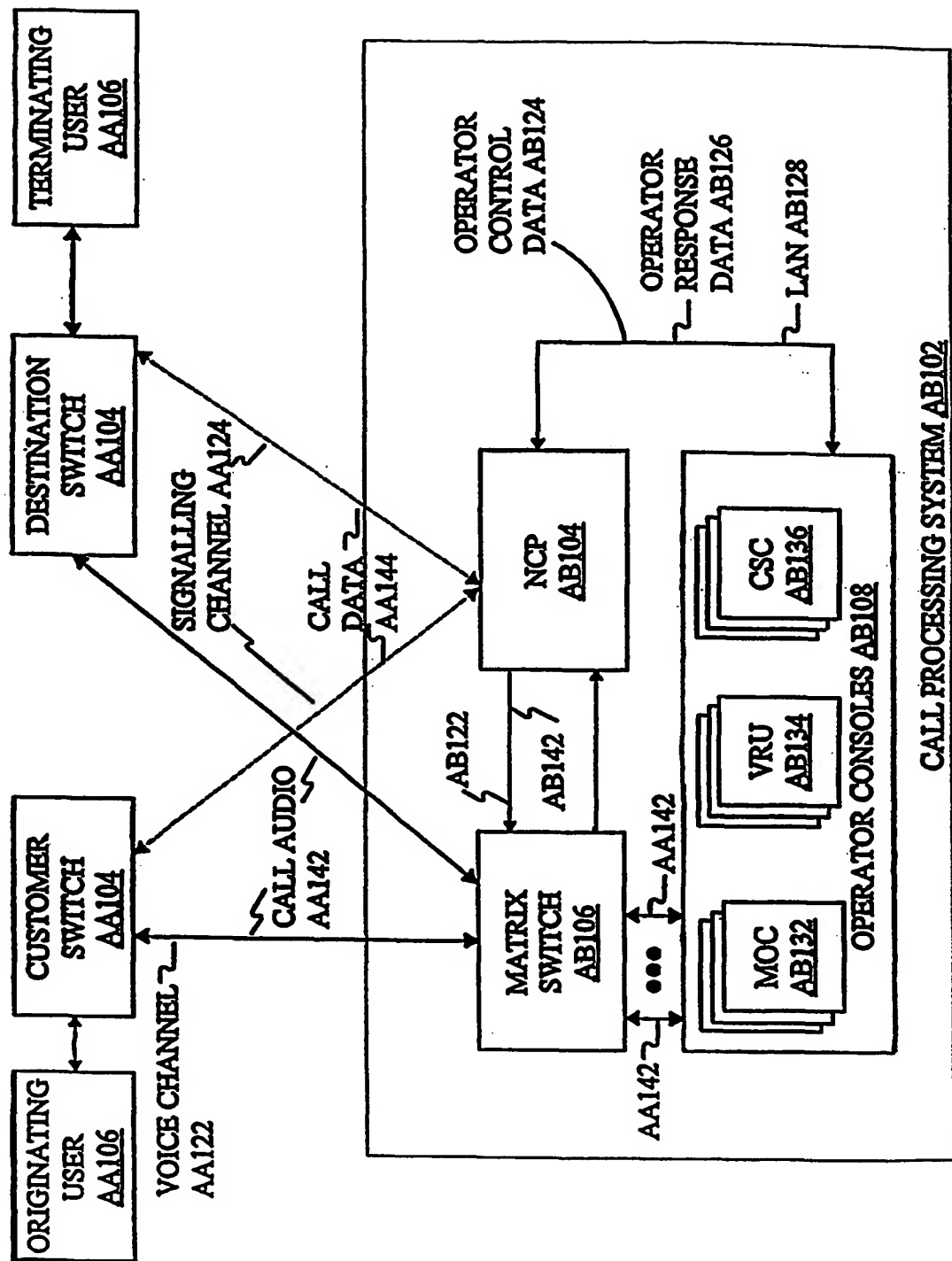


FIG 3

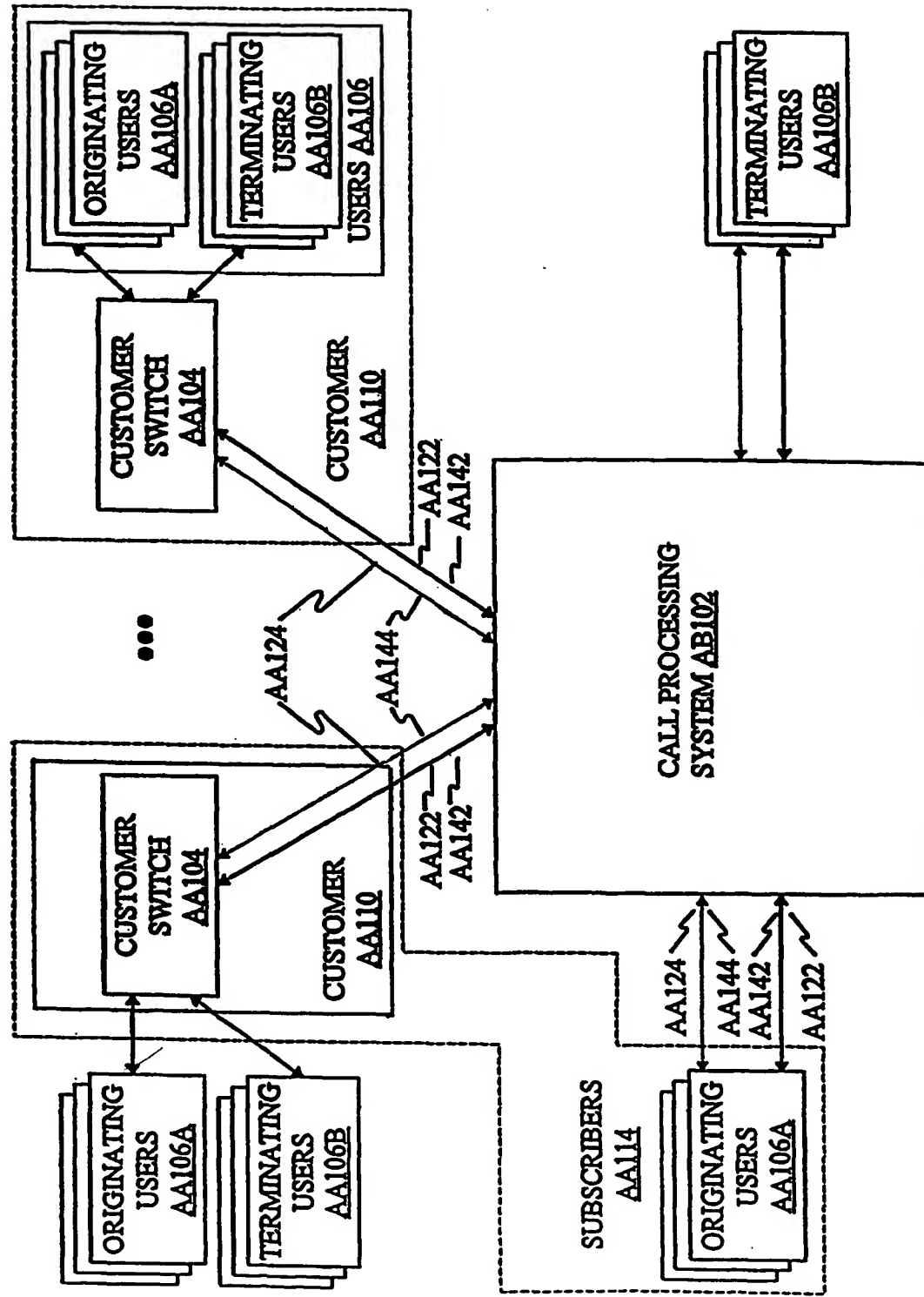


FIG 4

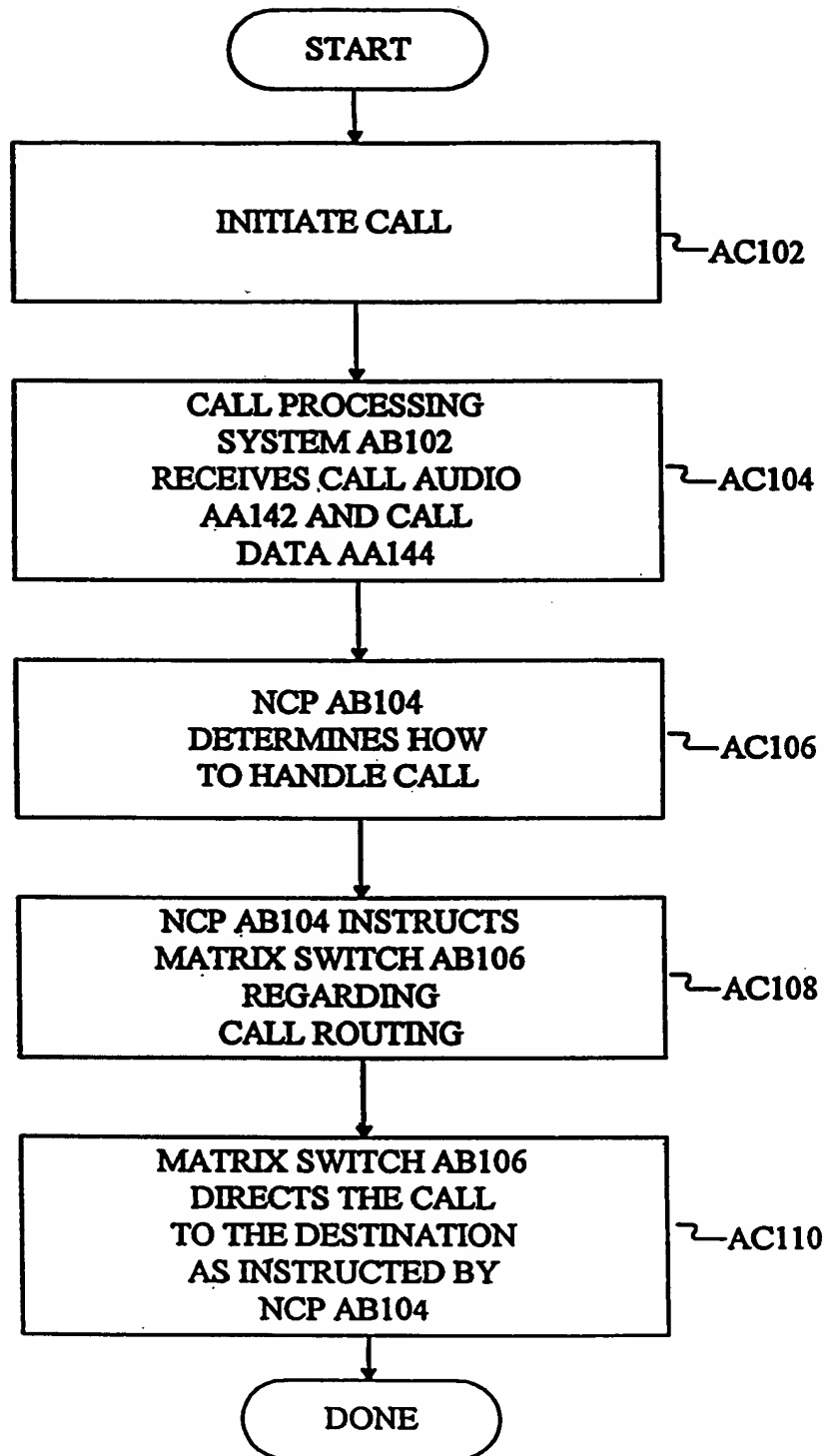


FIG 5



FIG 7

FIG 8

FIG 6

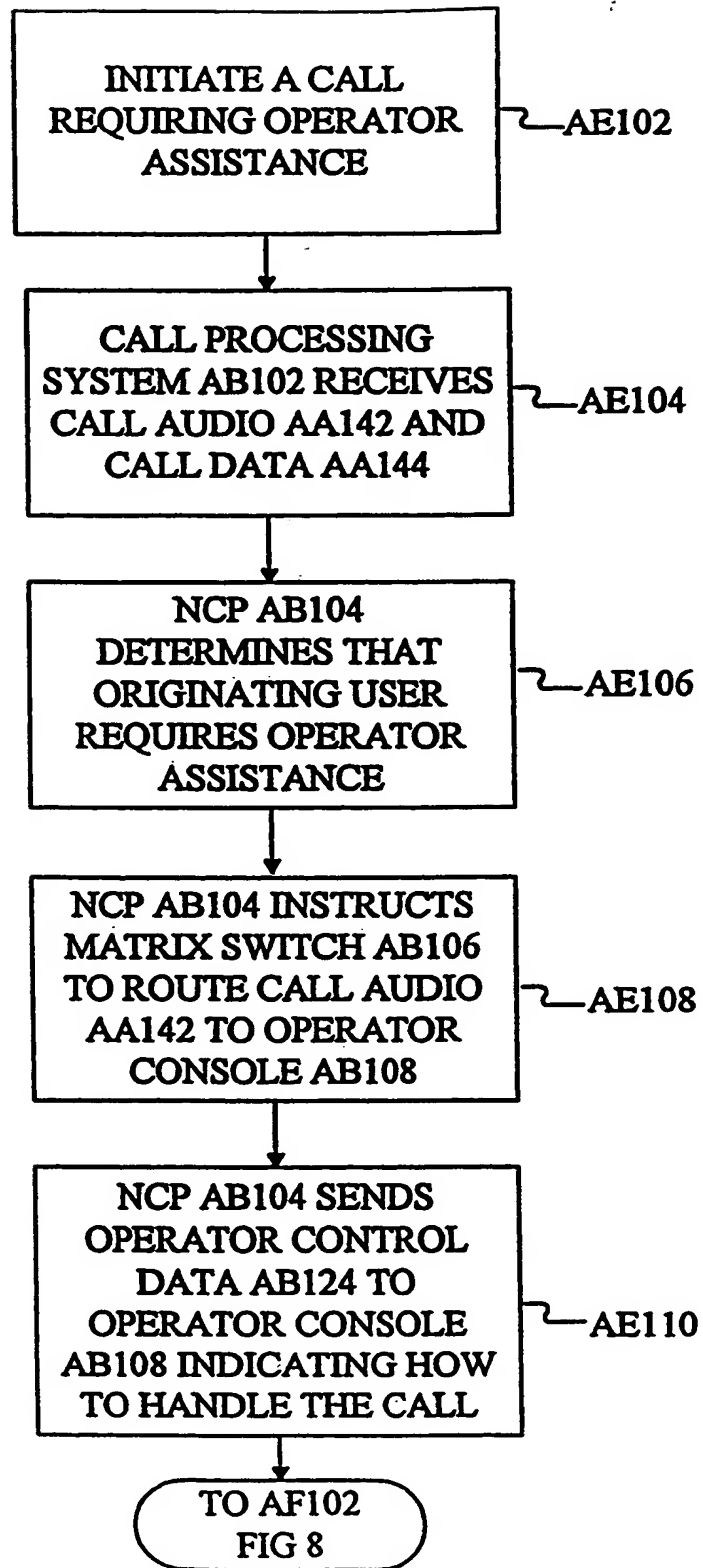


FIG 7

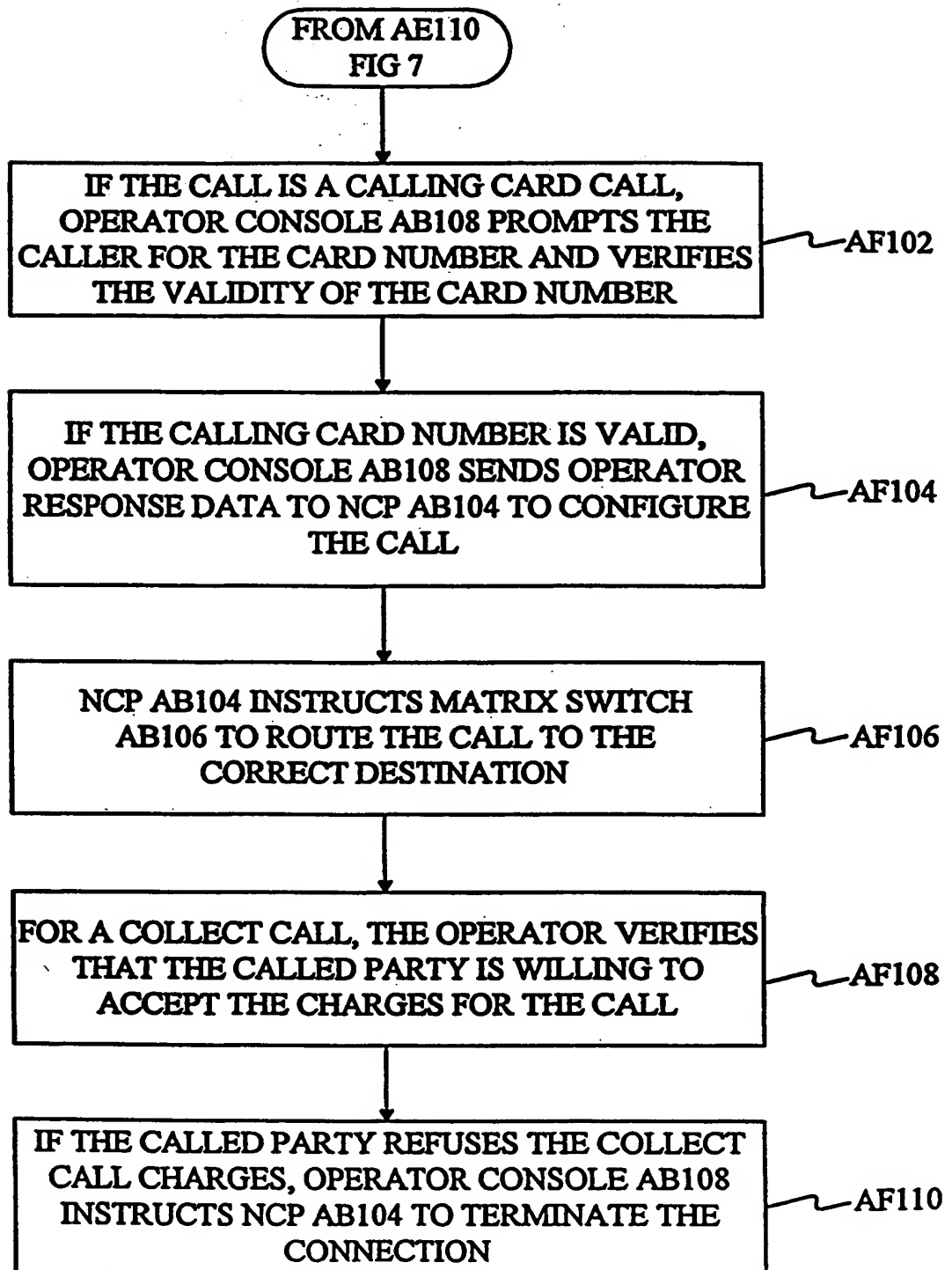


FIG 8

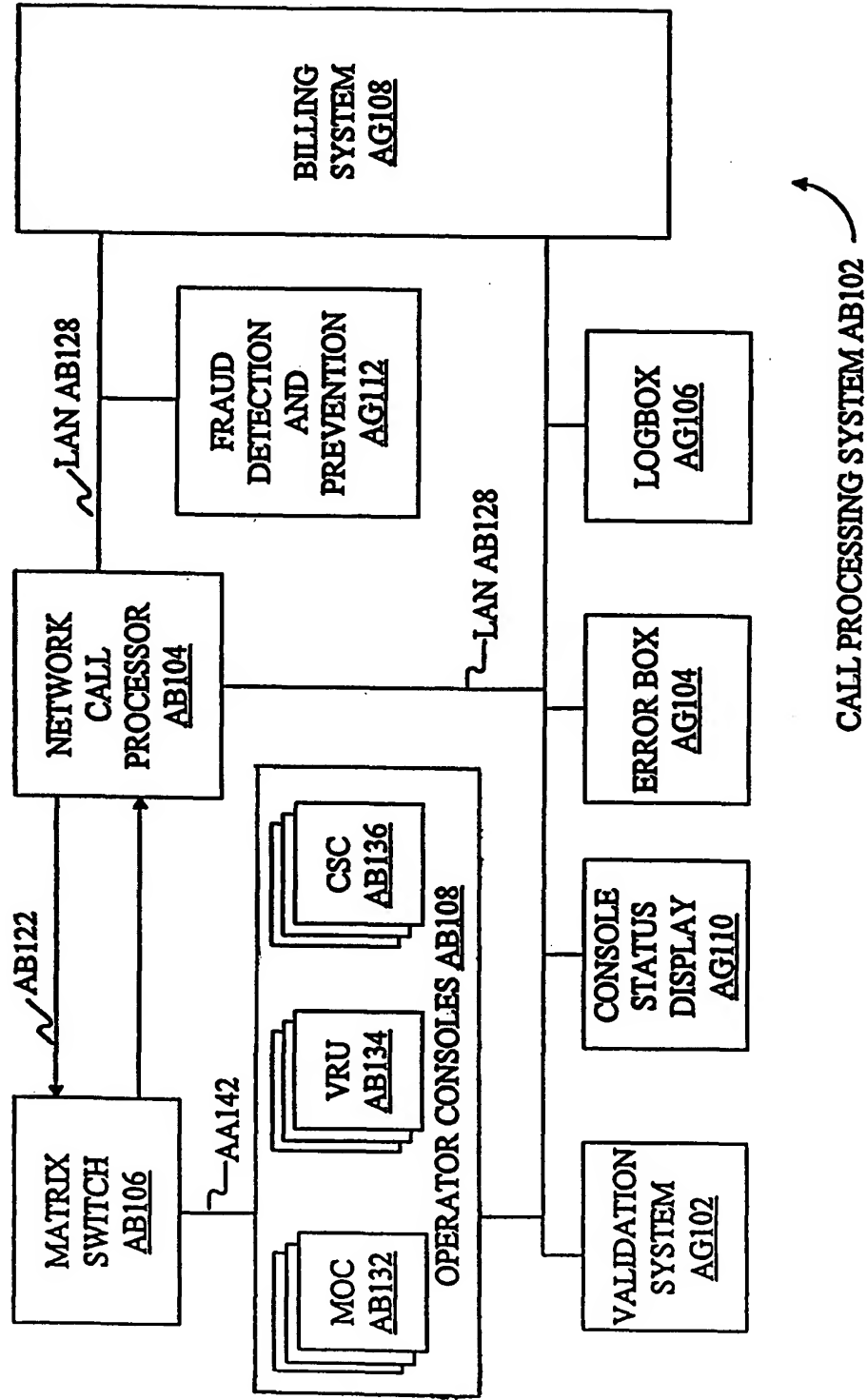


FIG 9

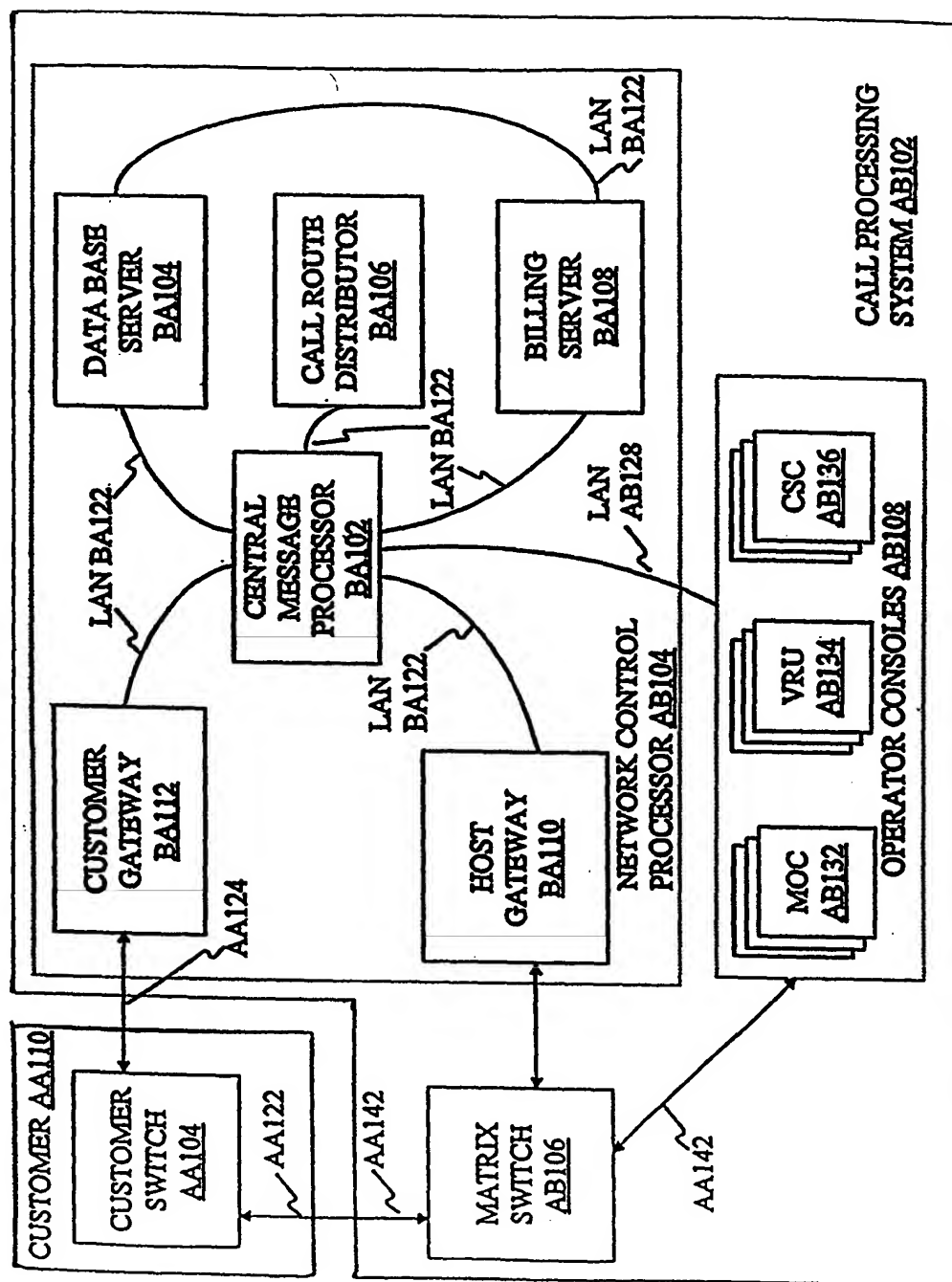


FIG 10



FIG 12

FIG 13

FIG 11

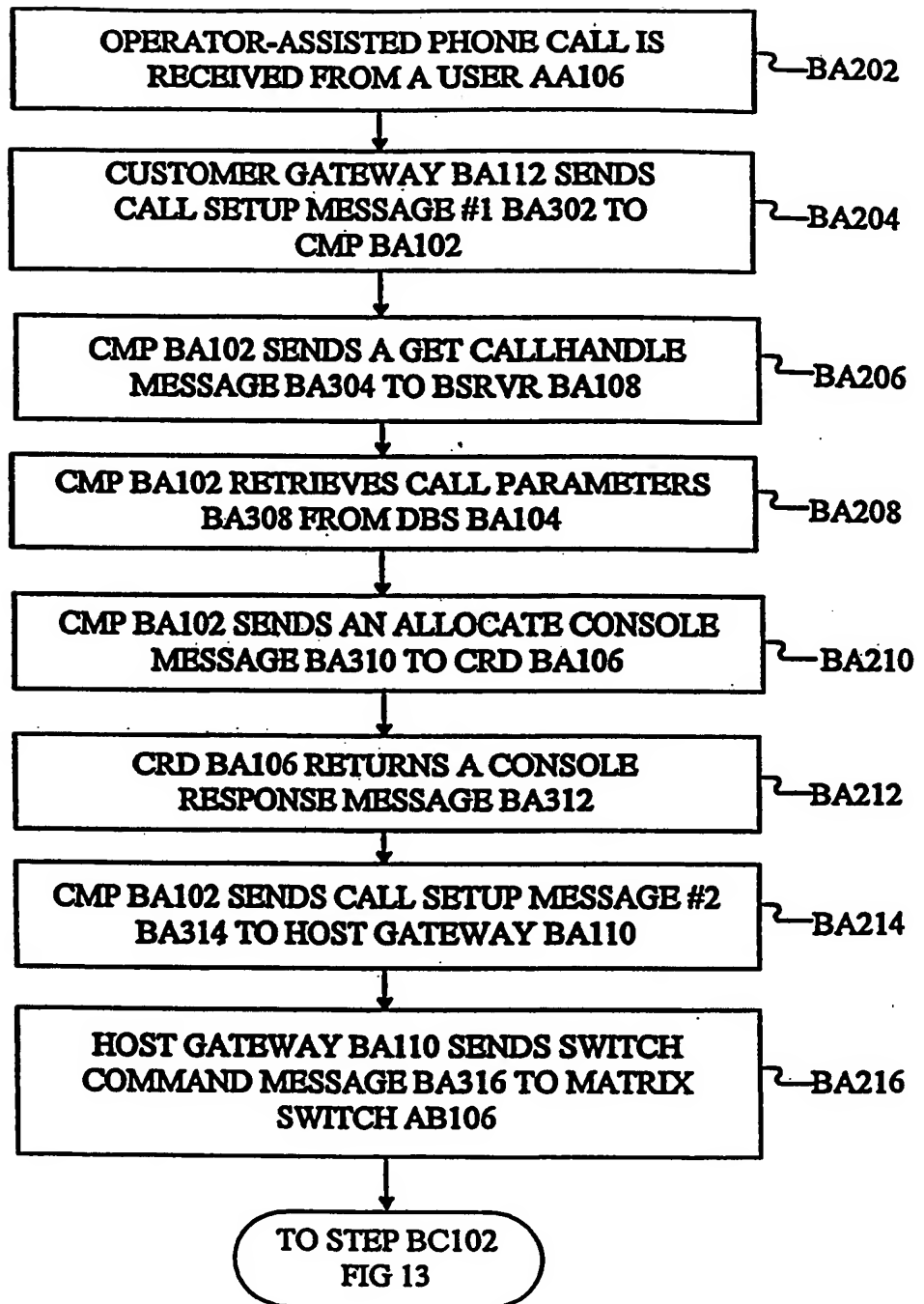


FIG 12

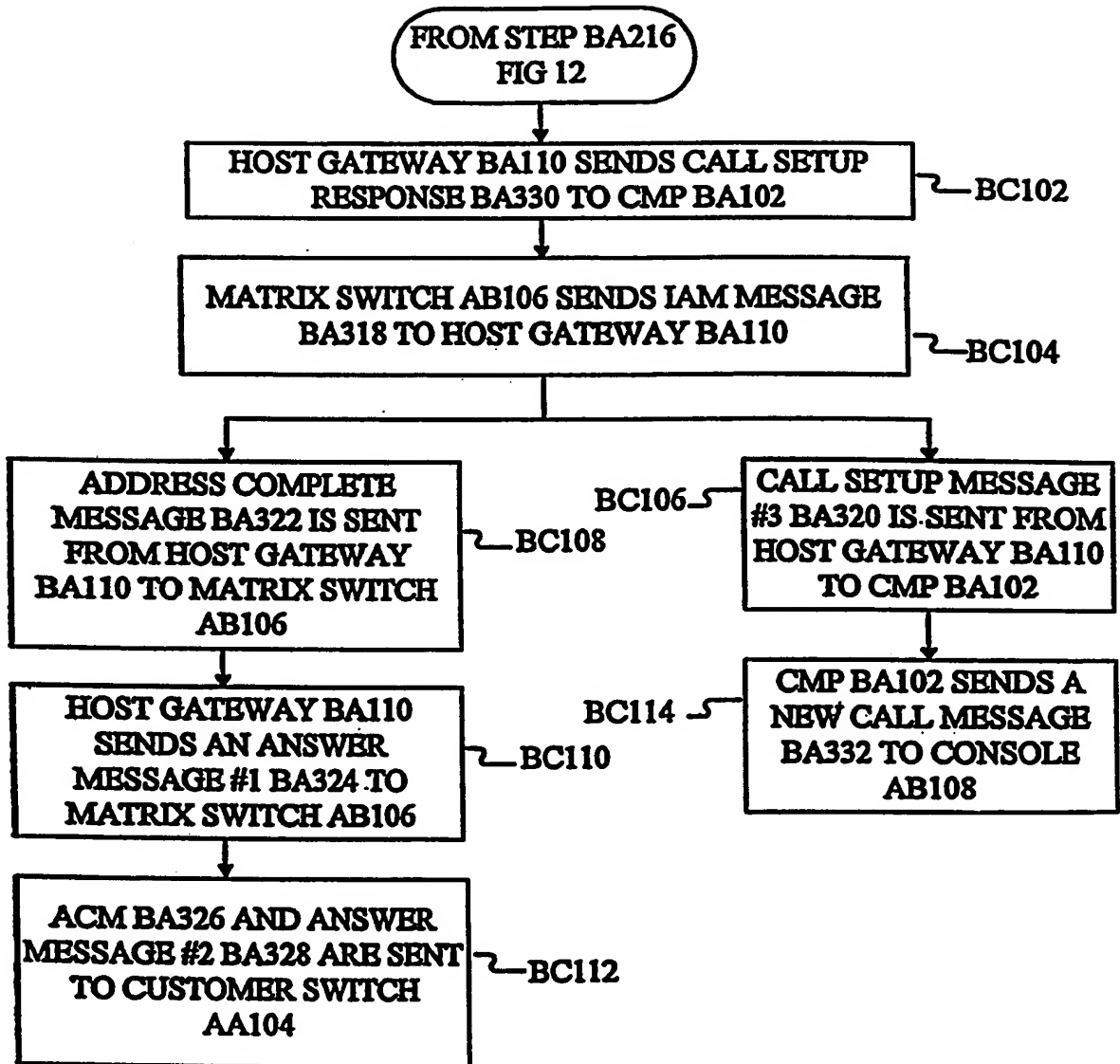


FIG 13

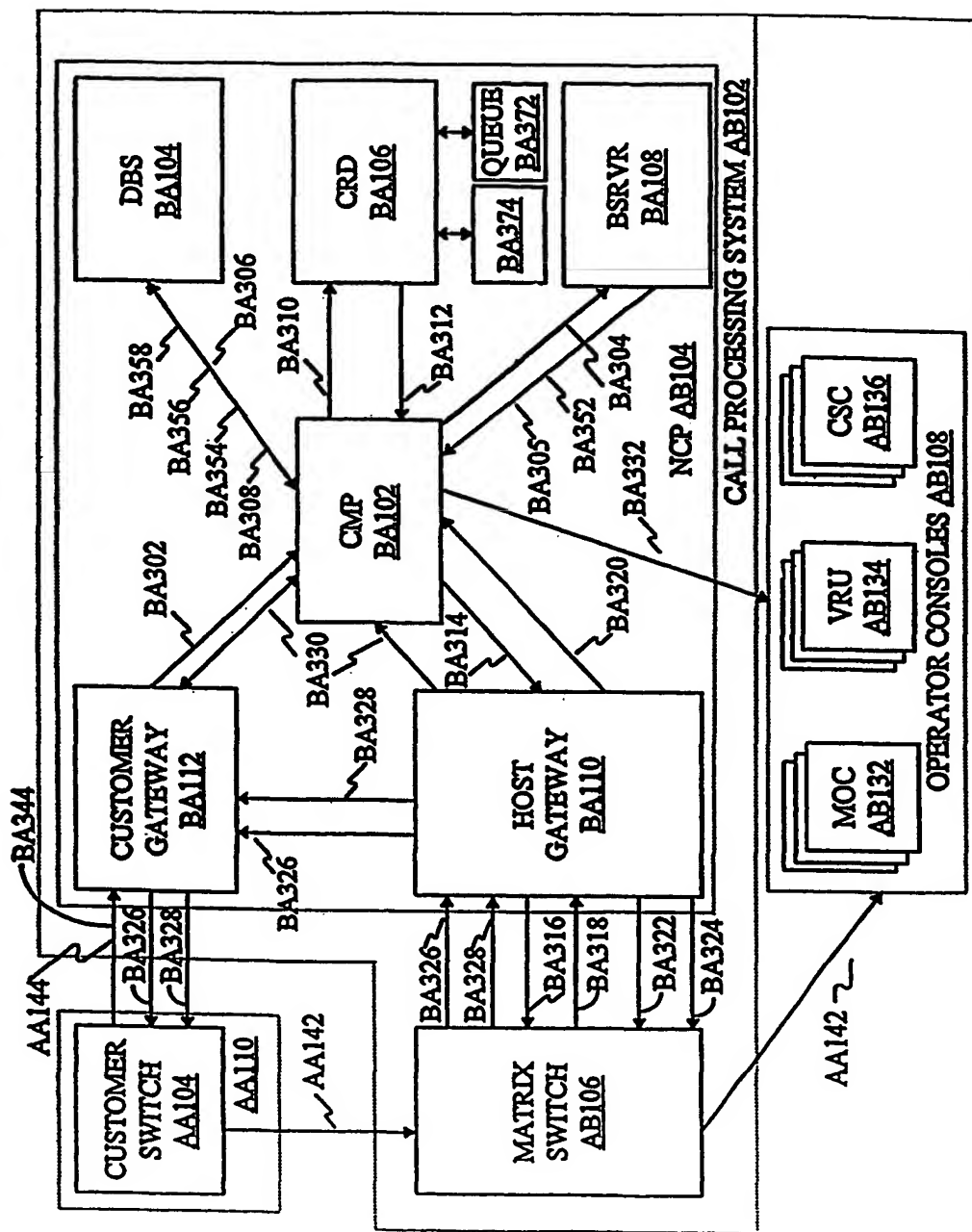


FIG 14

FIG 16	FIG 17
---------------	---------------

FIG 15

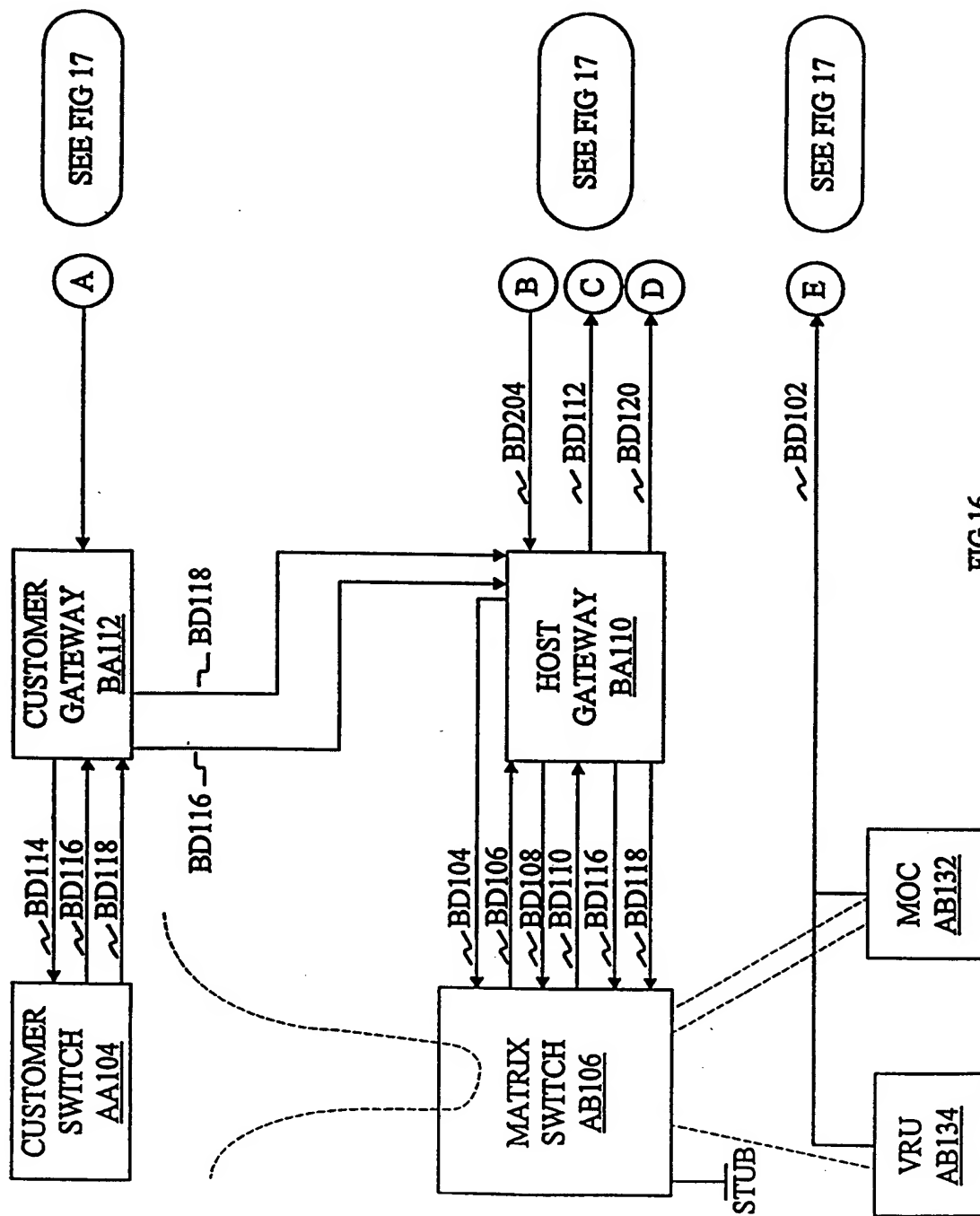


FIG 16

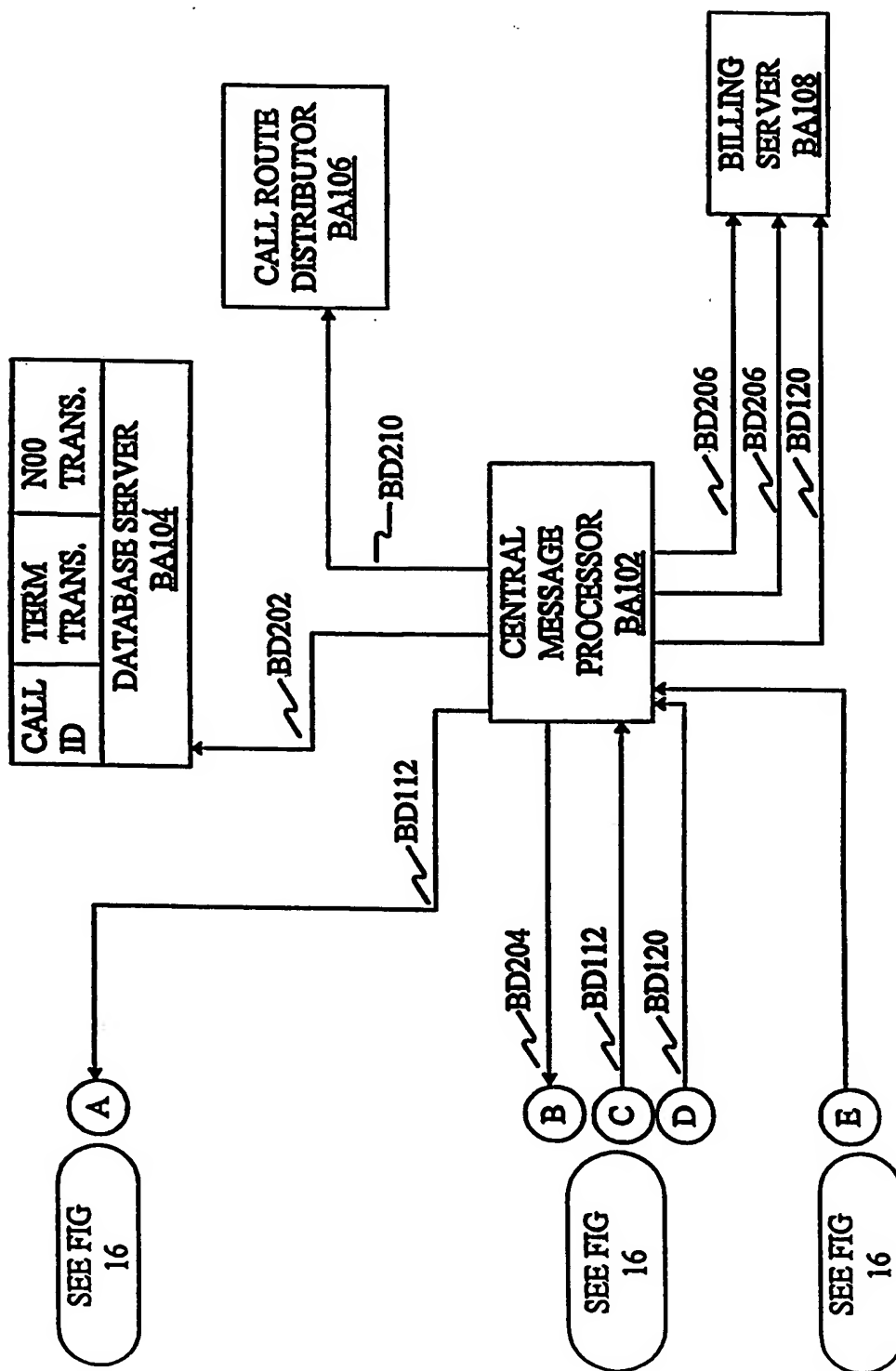


FIG 17

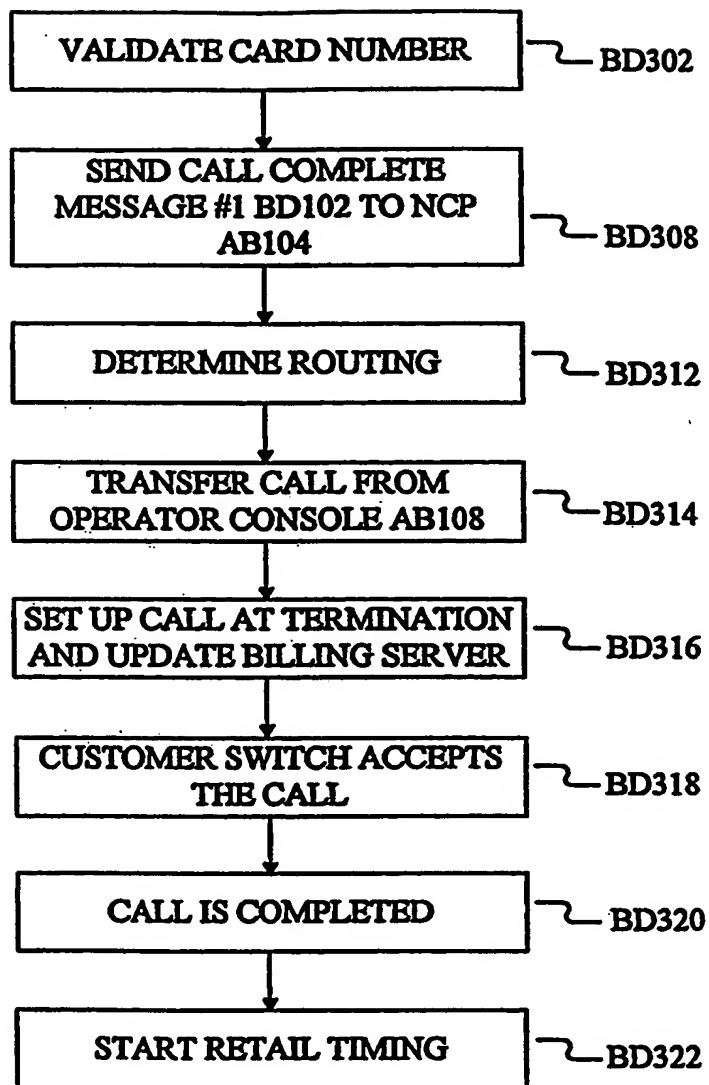


FIG 18

FIG 20

FIG 21

FIG 19

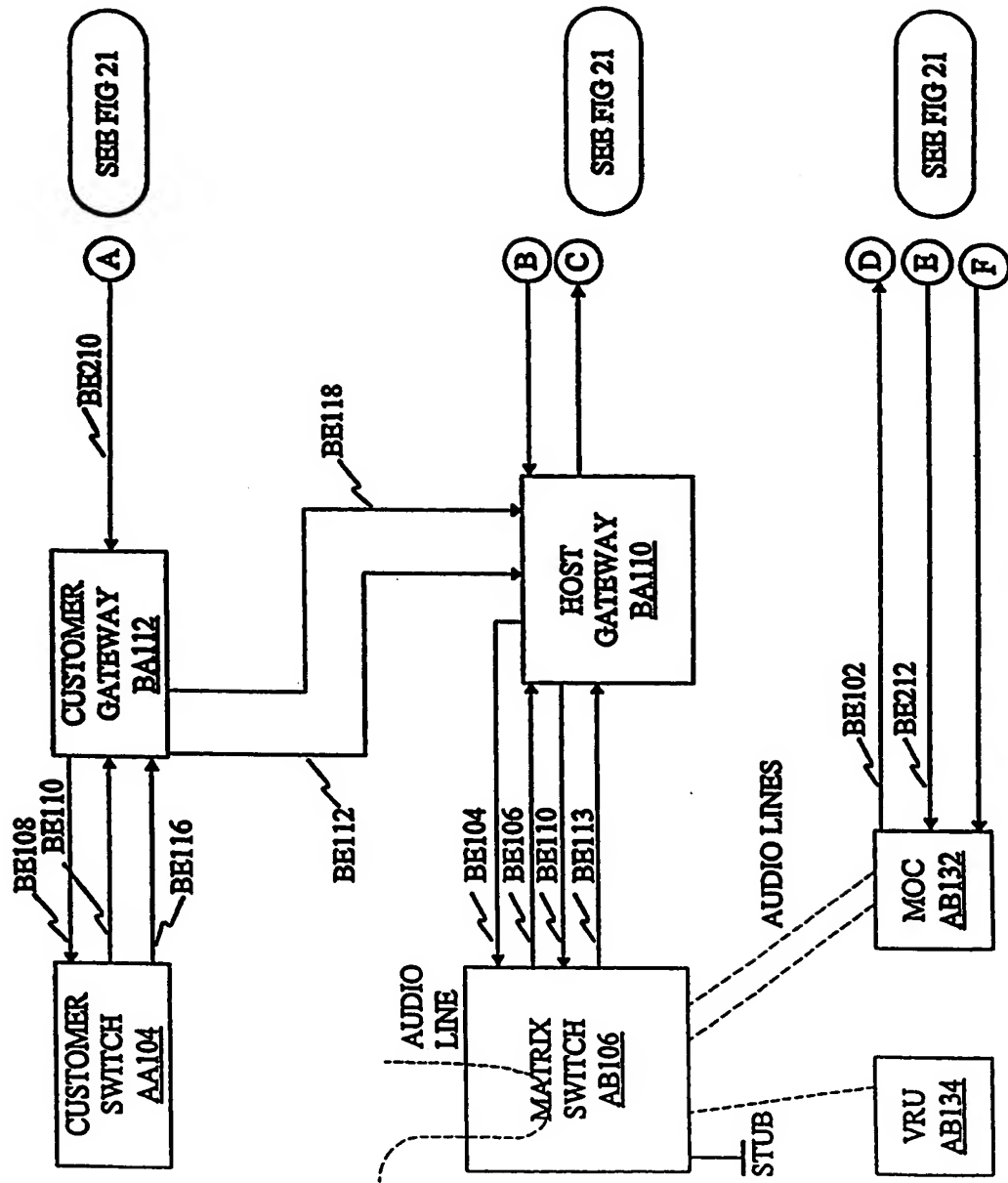


FIG 20

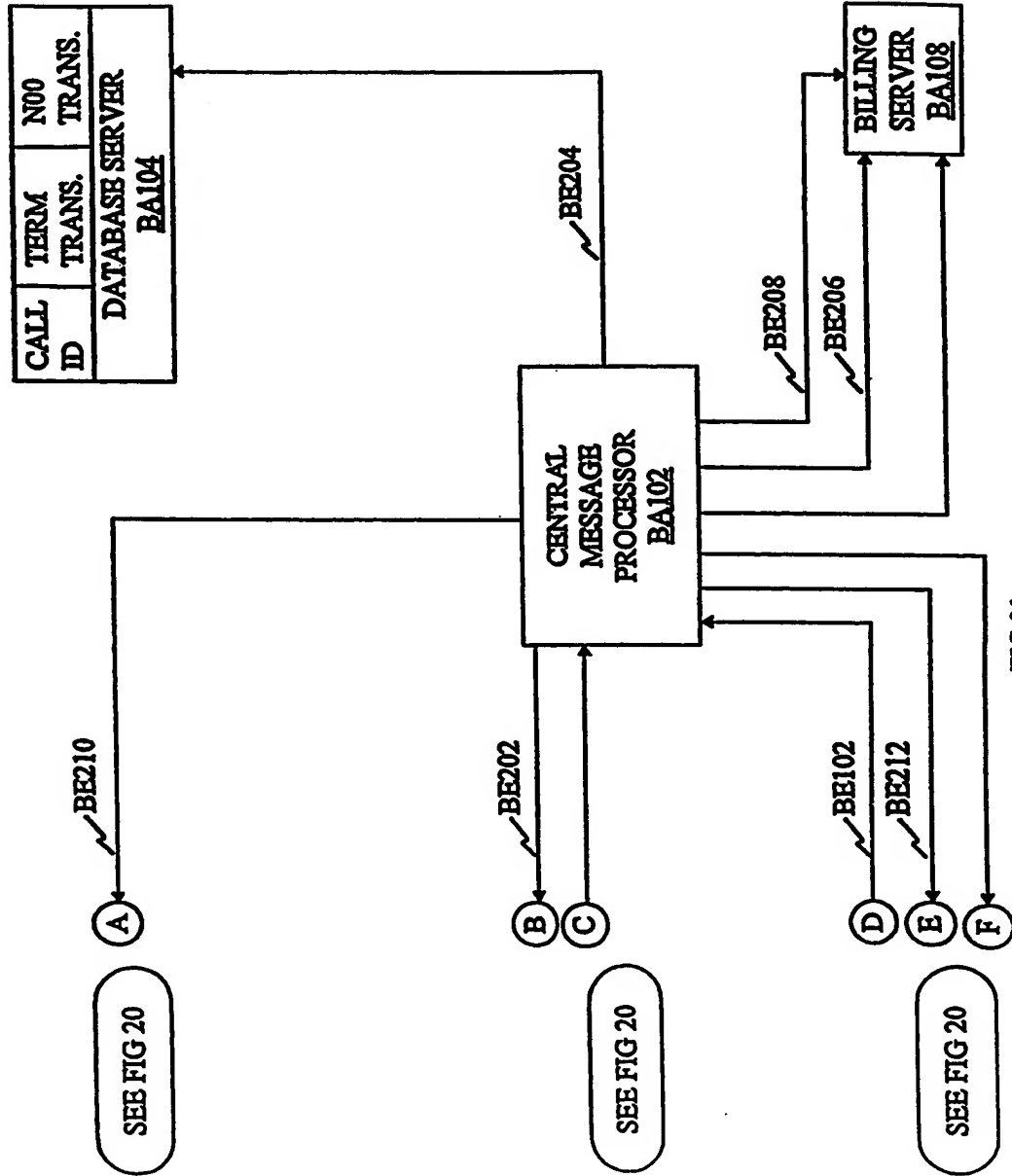


FIG 21

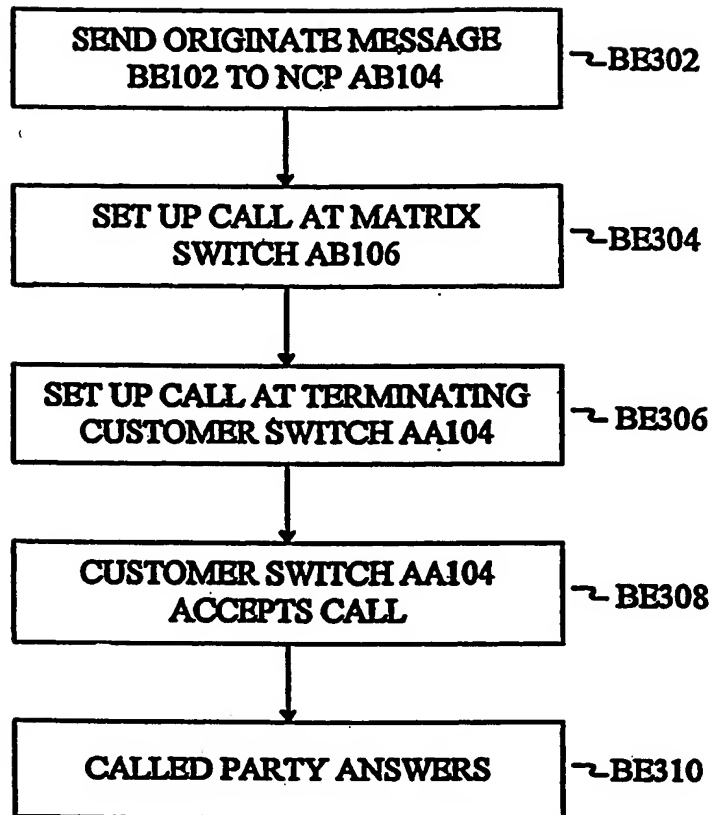


FIG 22

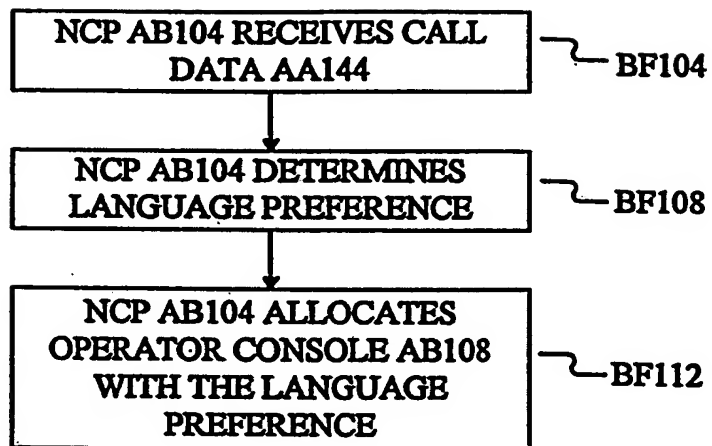


FIG 23

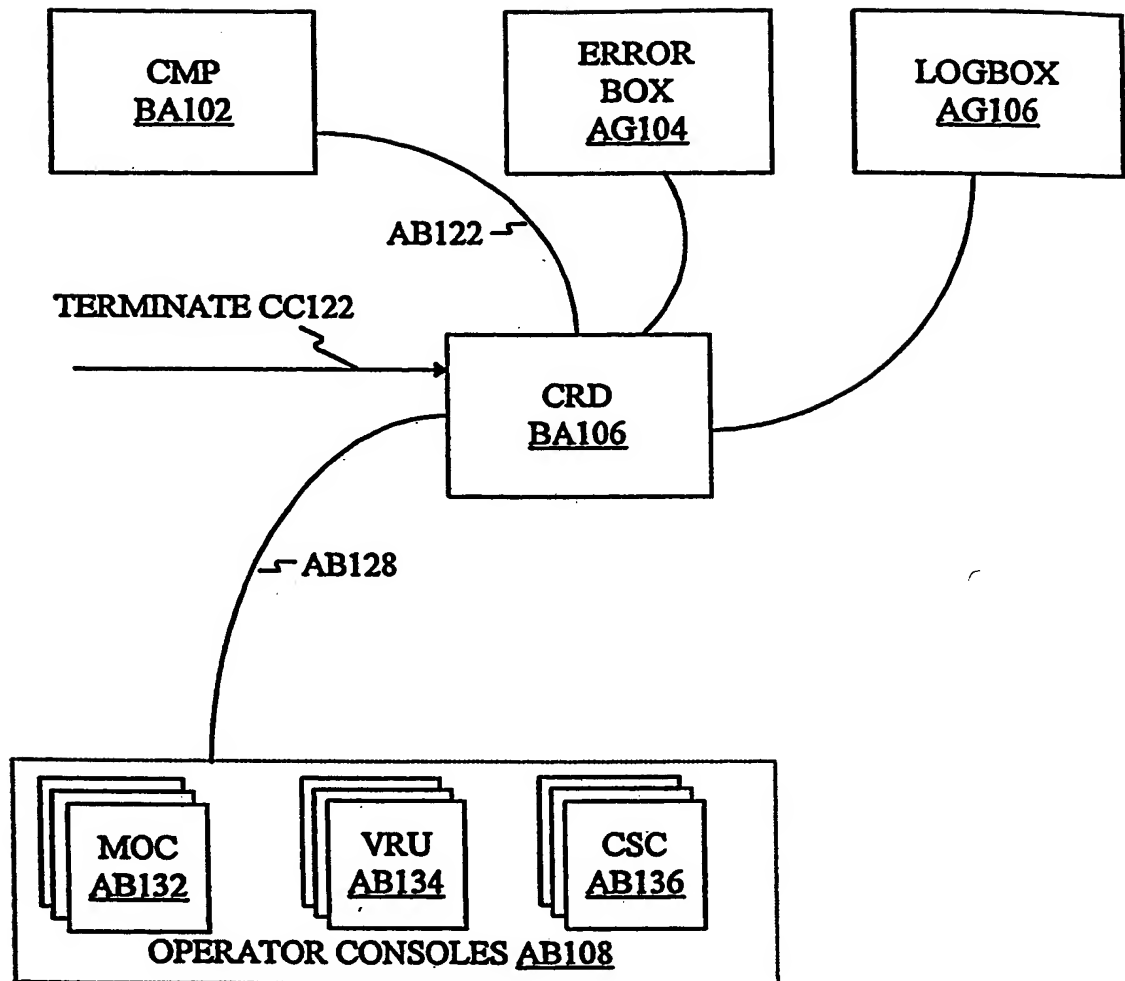


FIG 24

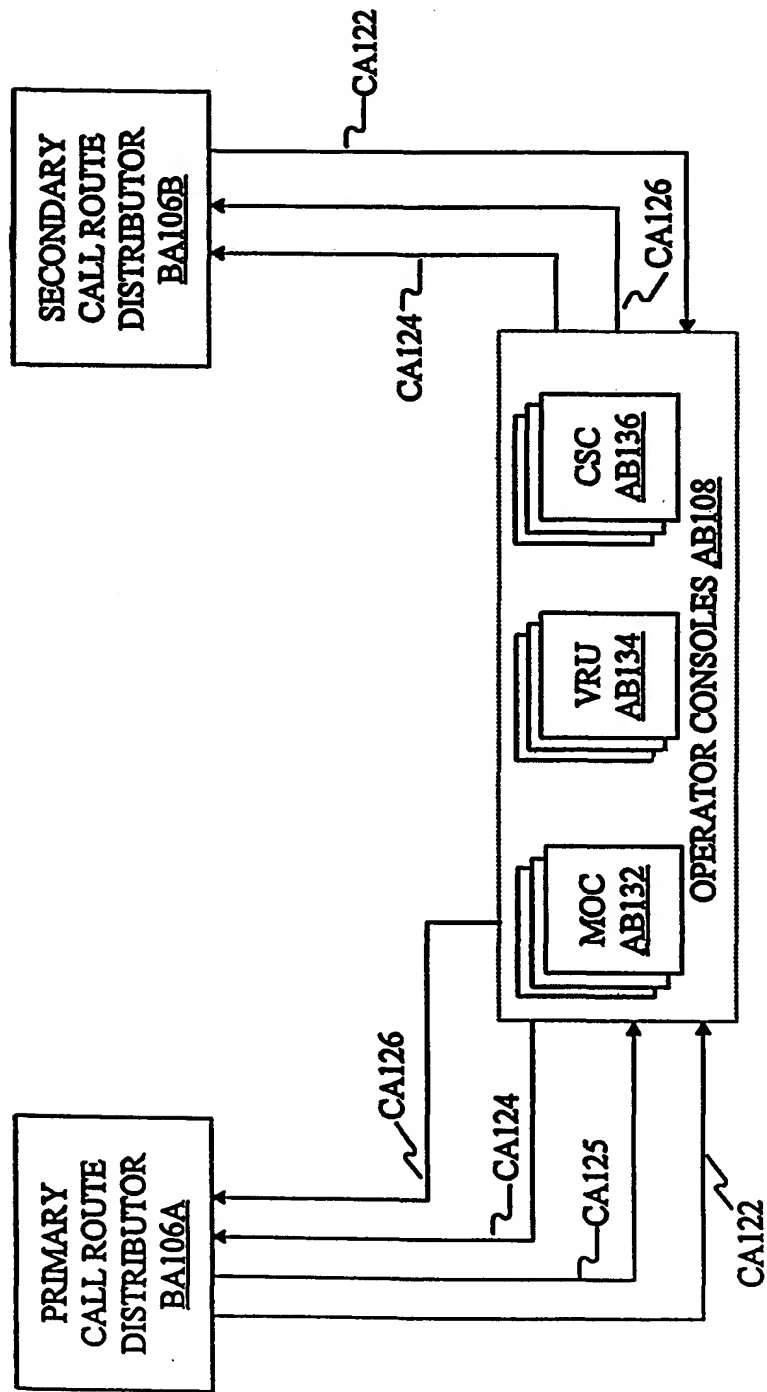


FIG 25

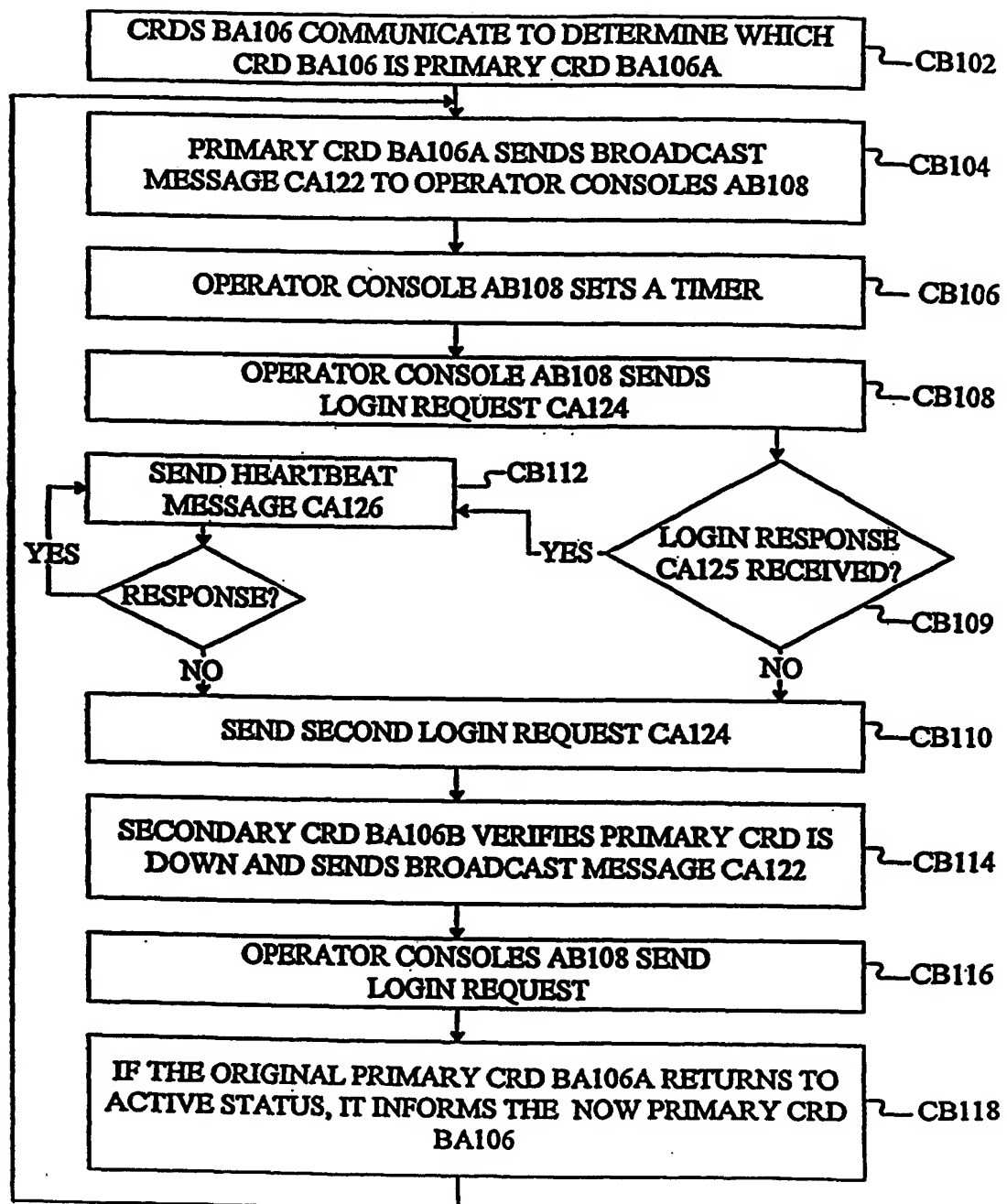


FIG 26

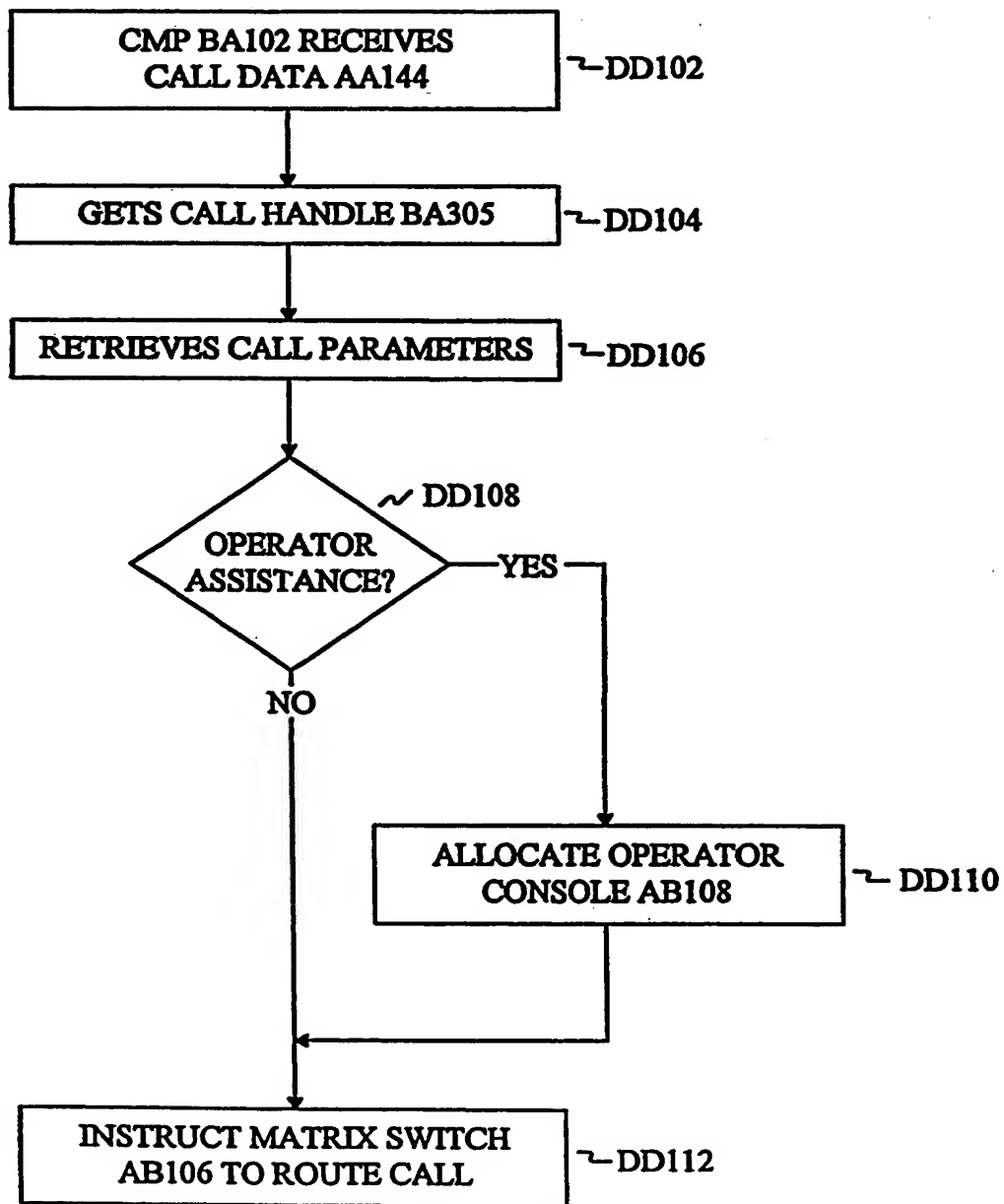


FIG 27

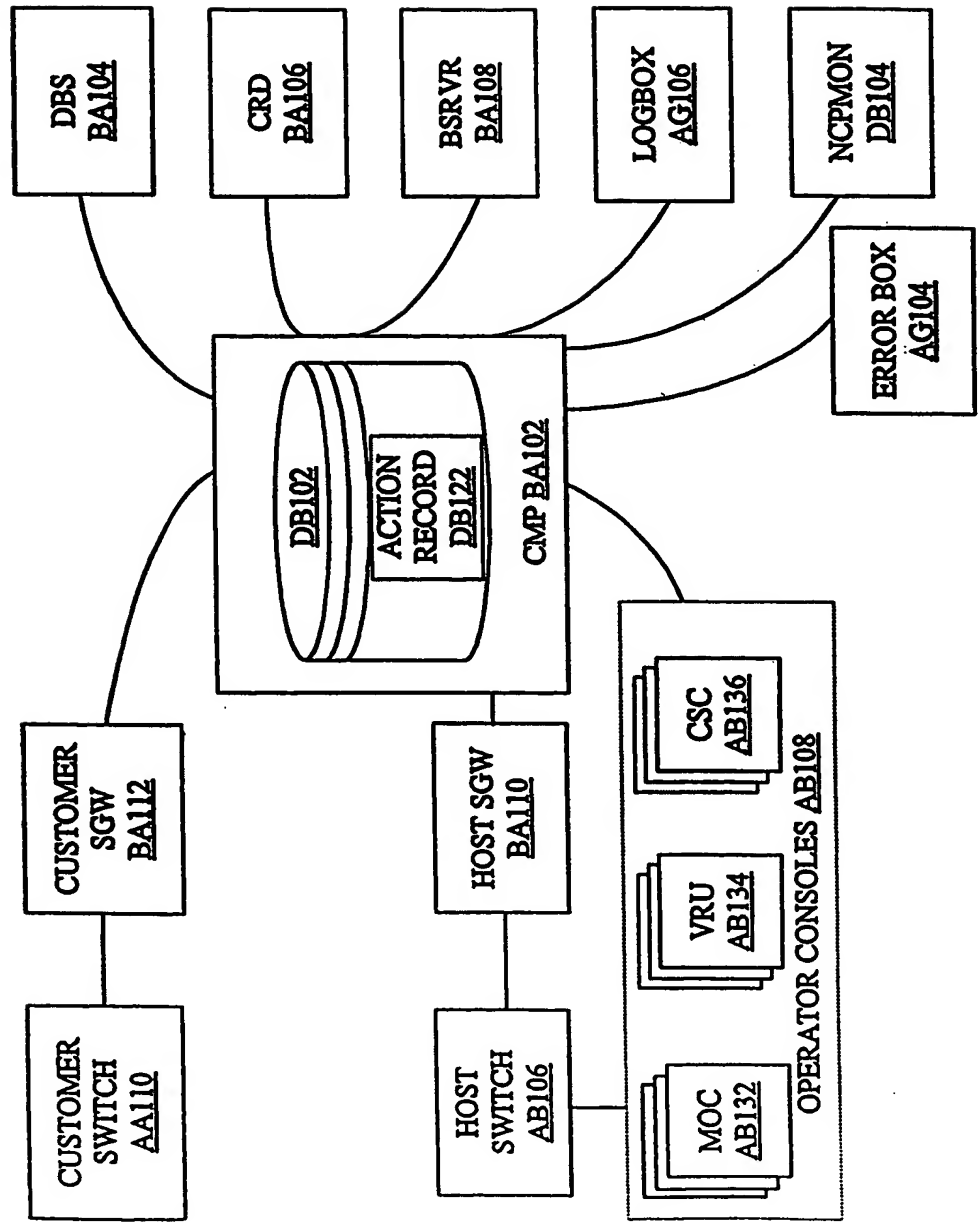


FIG 28

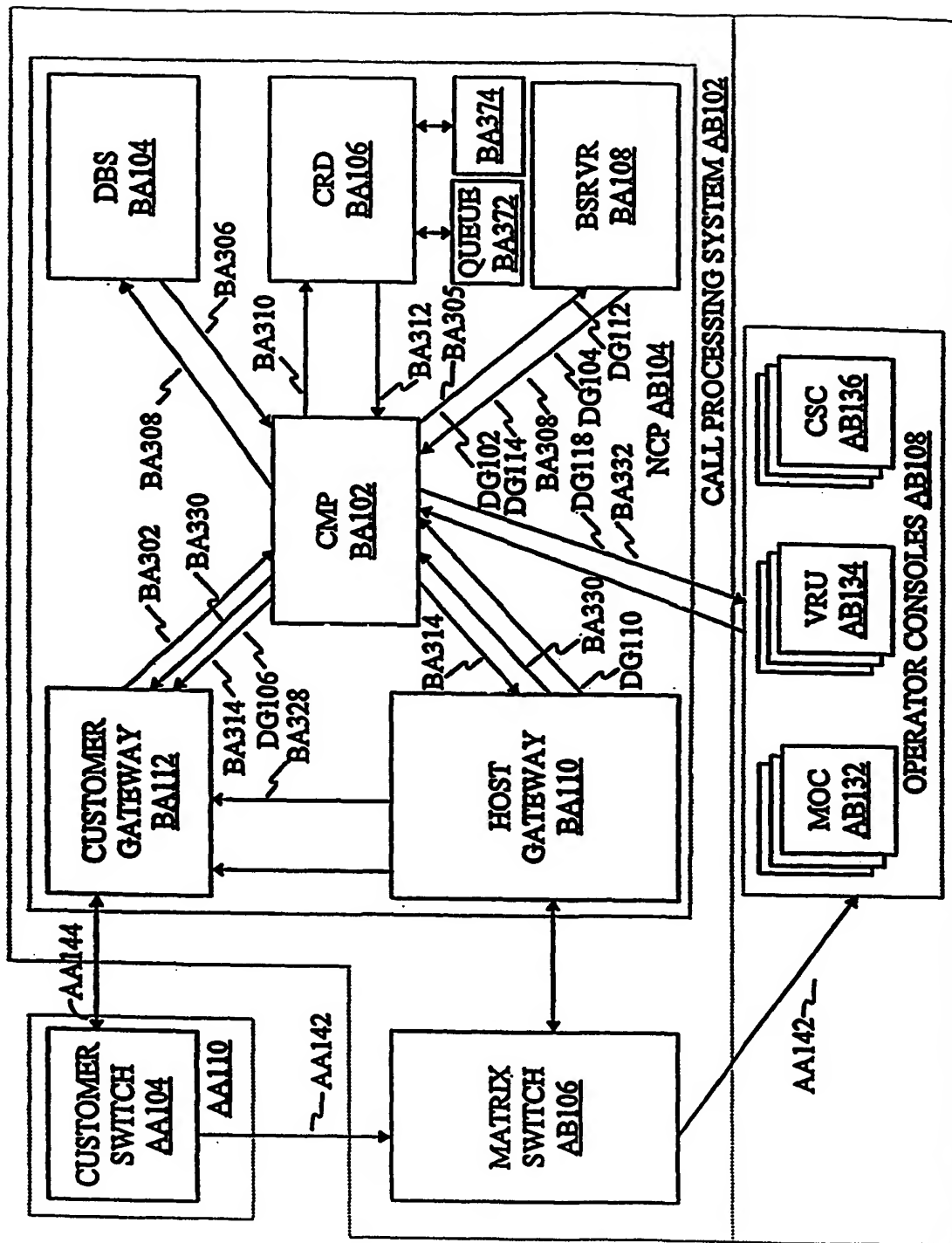


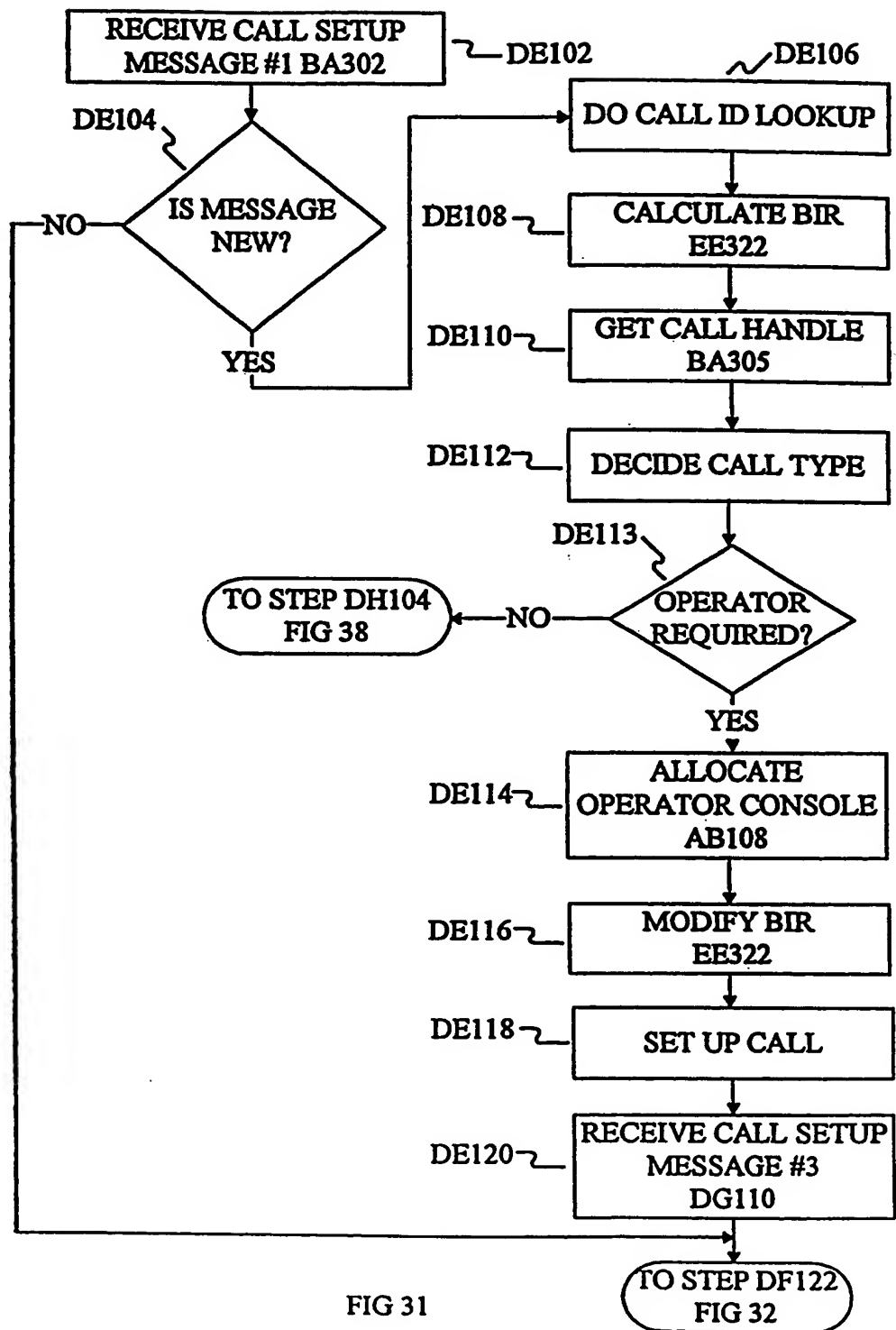
FIG 29



FIG 31

FIG 32

FIG 30



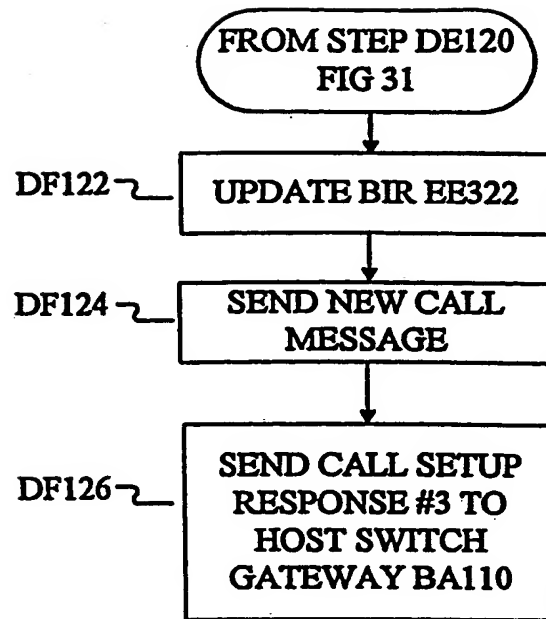


FIG 32

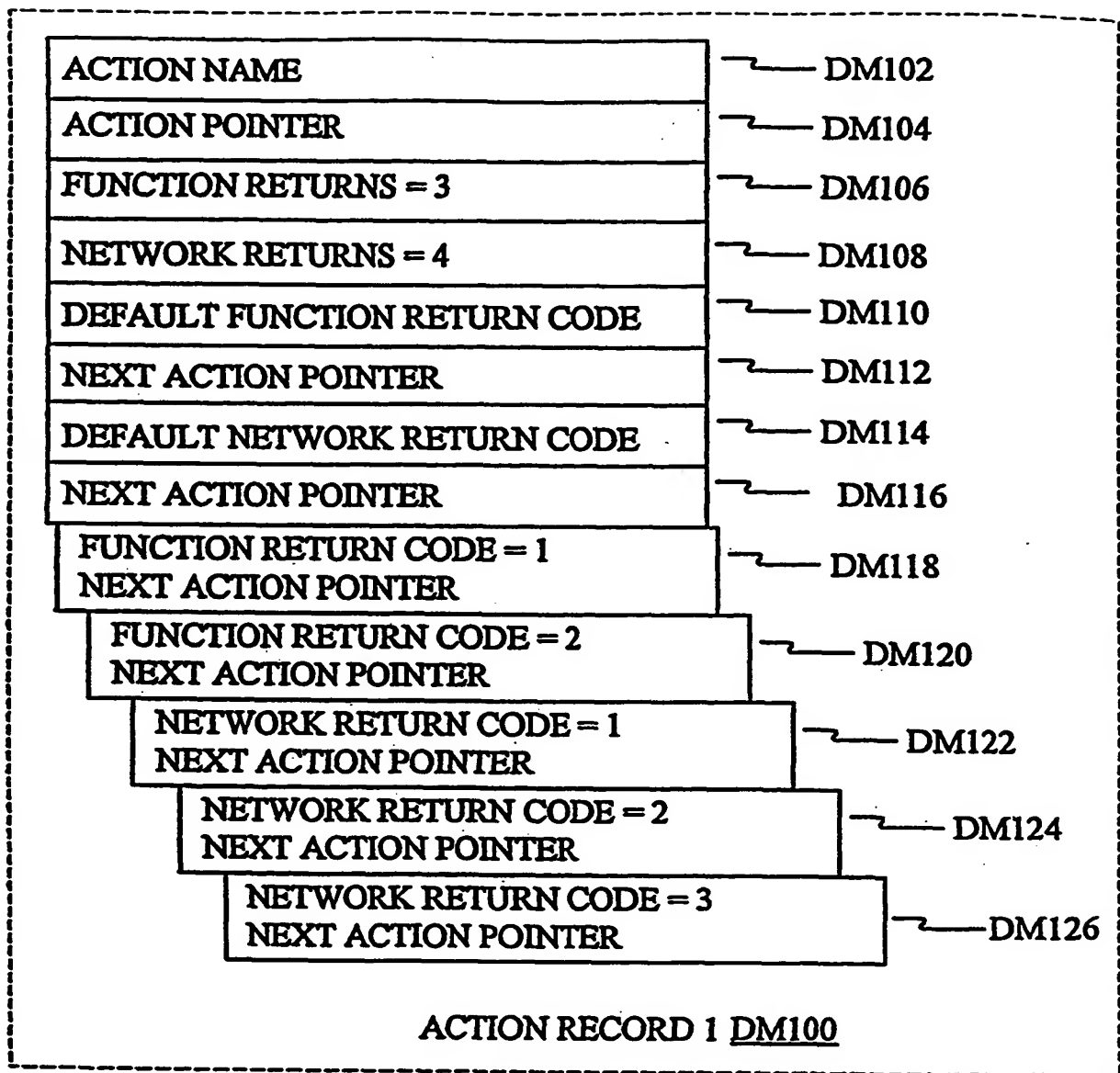


FIG 33

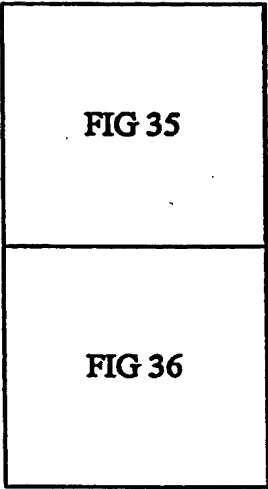


FIG 34

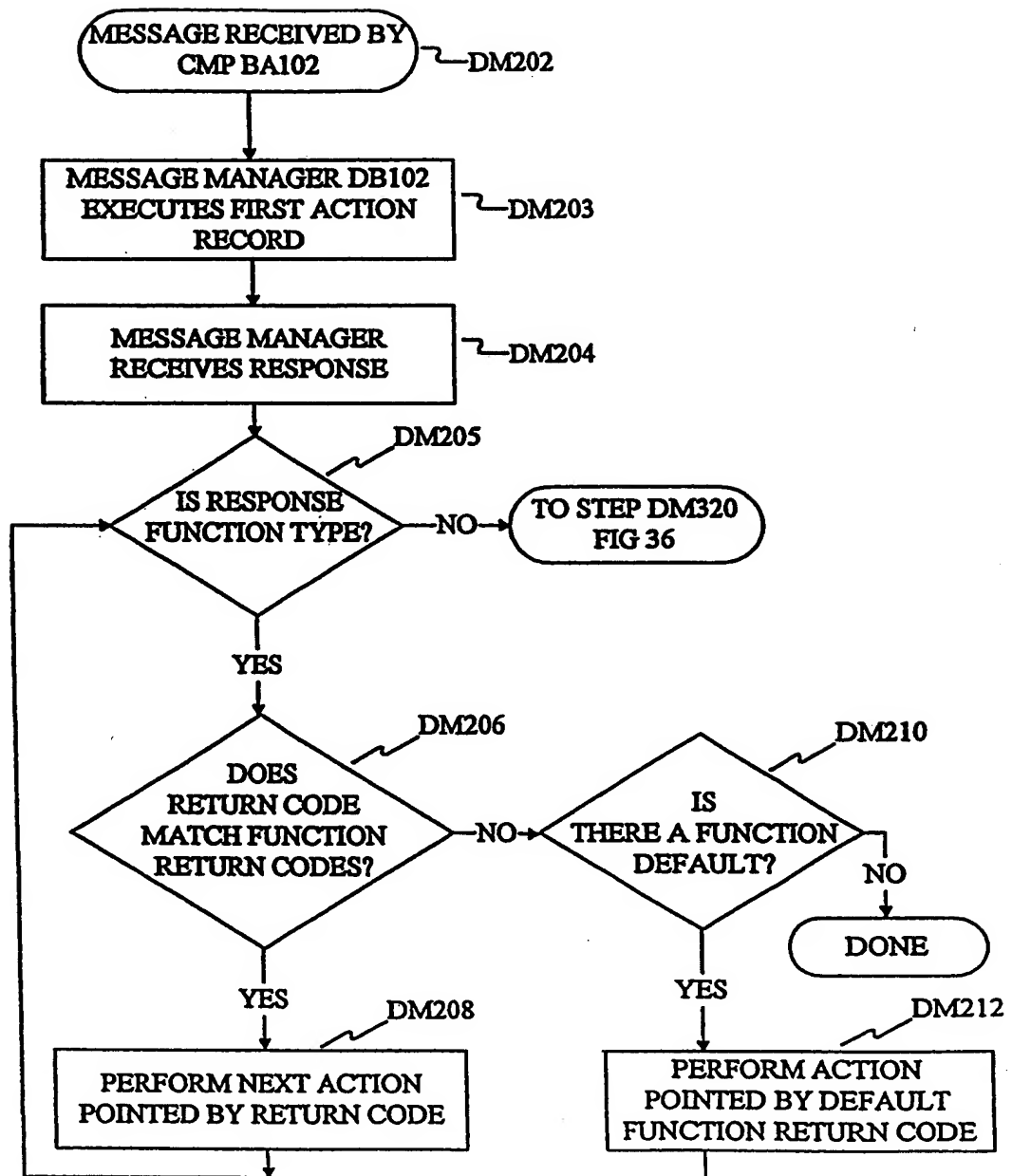


FIG 35

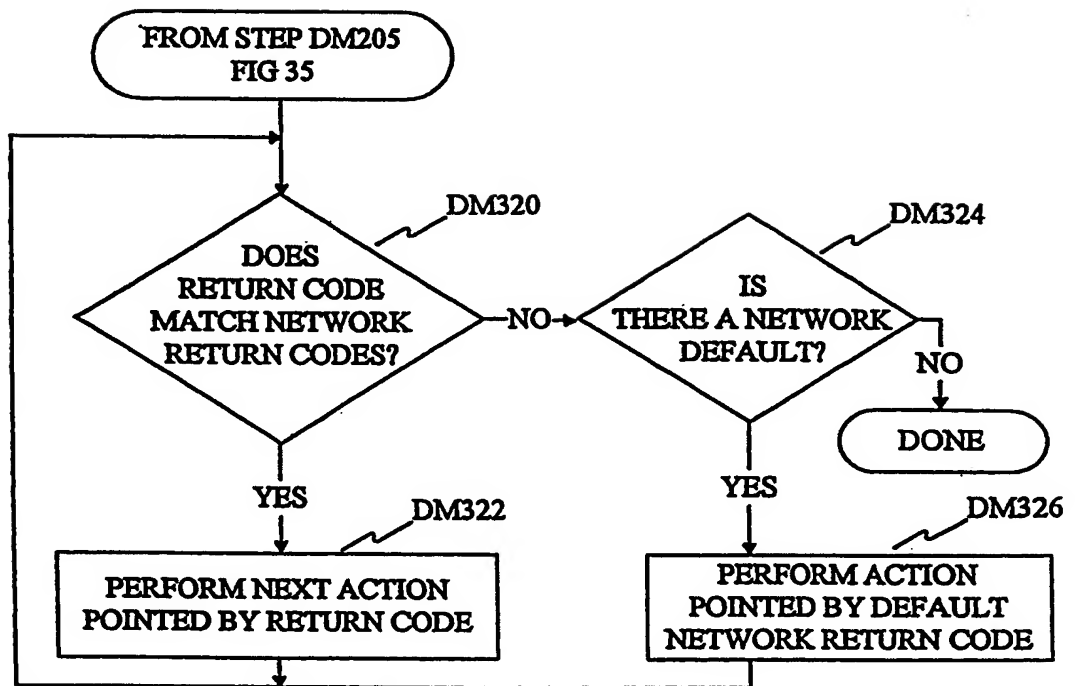


FIG 36

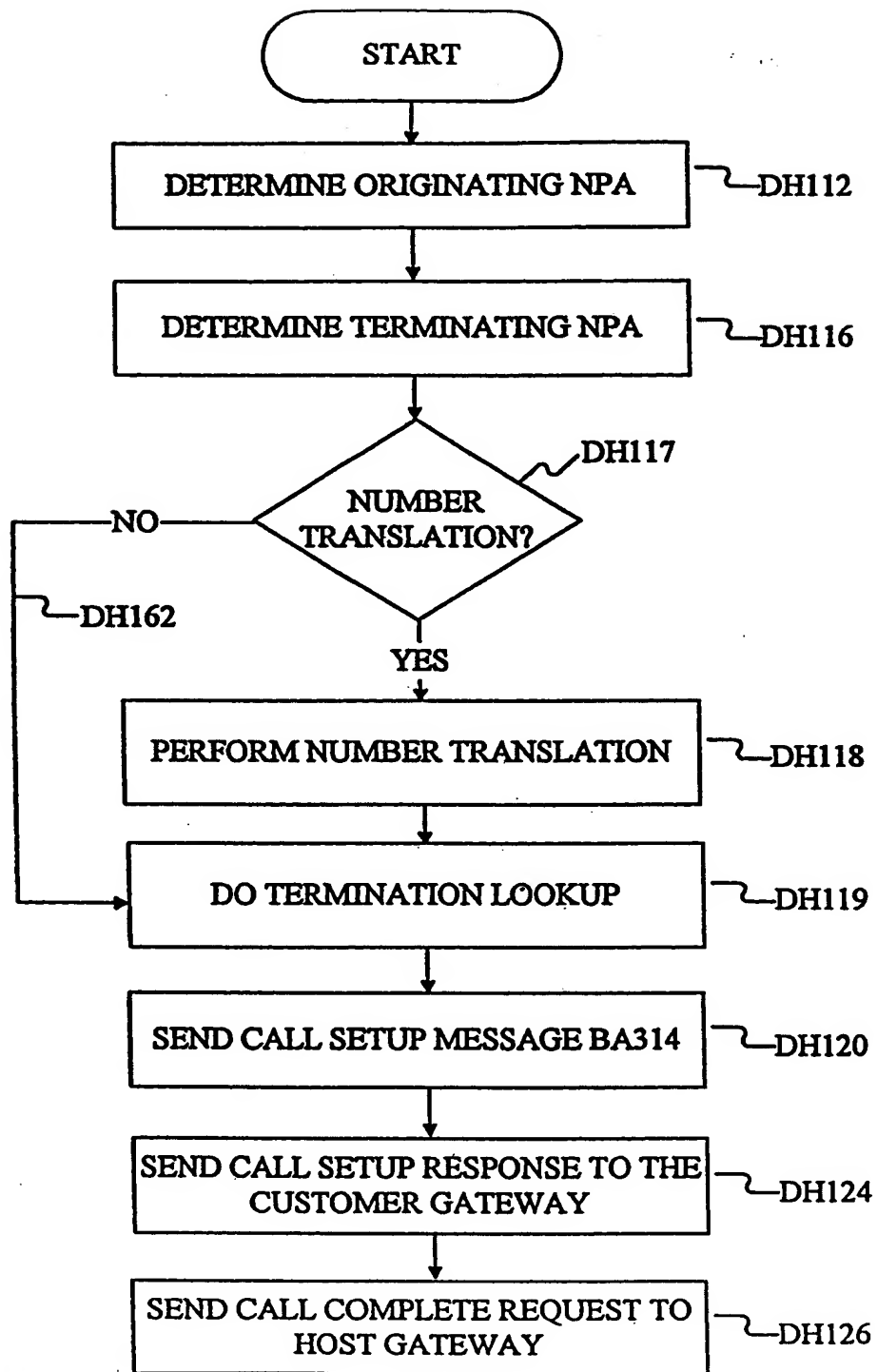


FIG 37

FIG 39

FIG 40

FIG 38

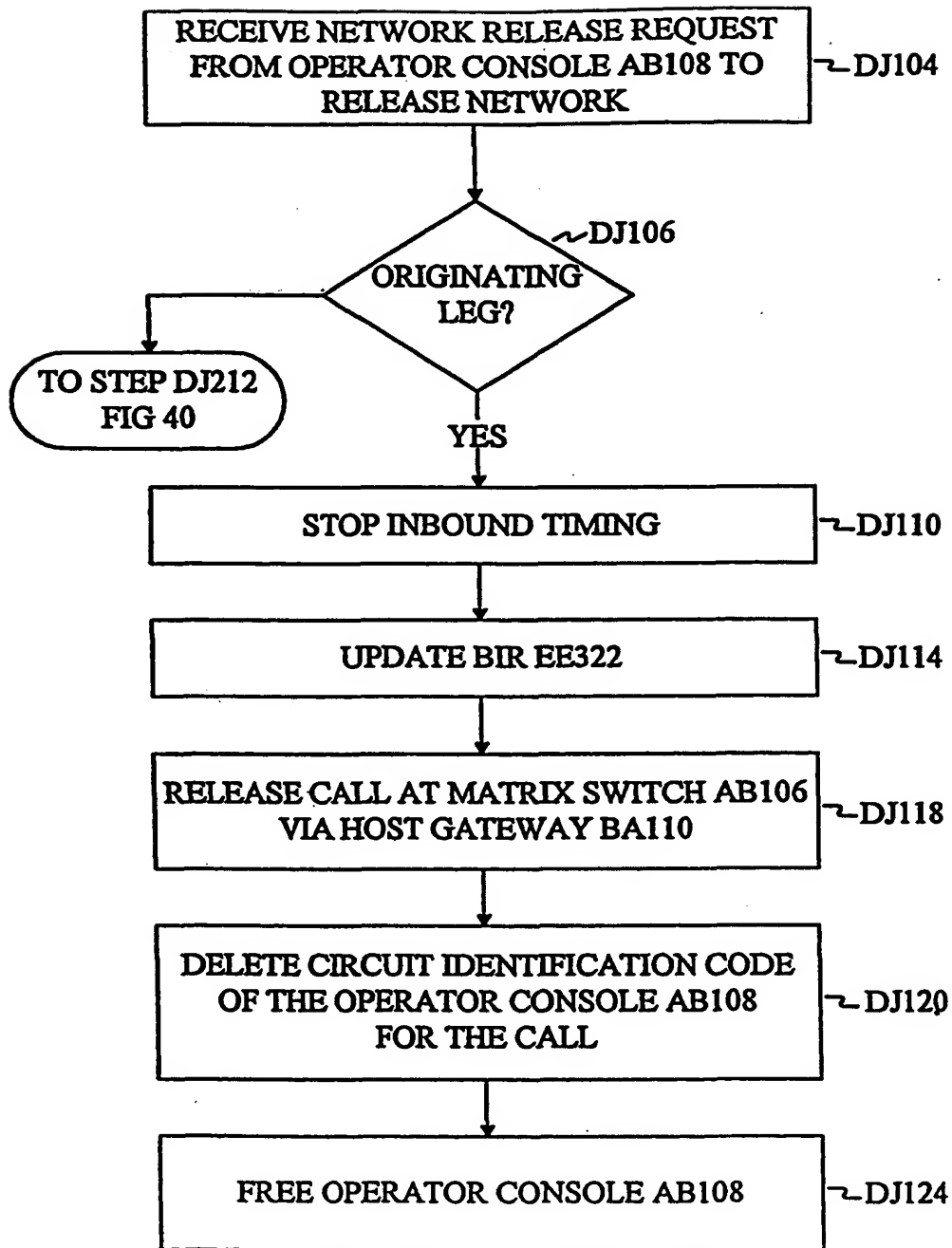


FIG 39

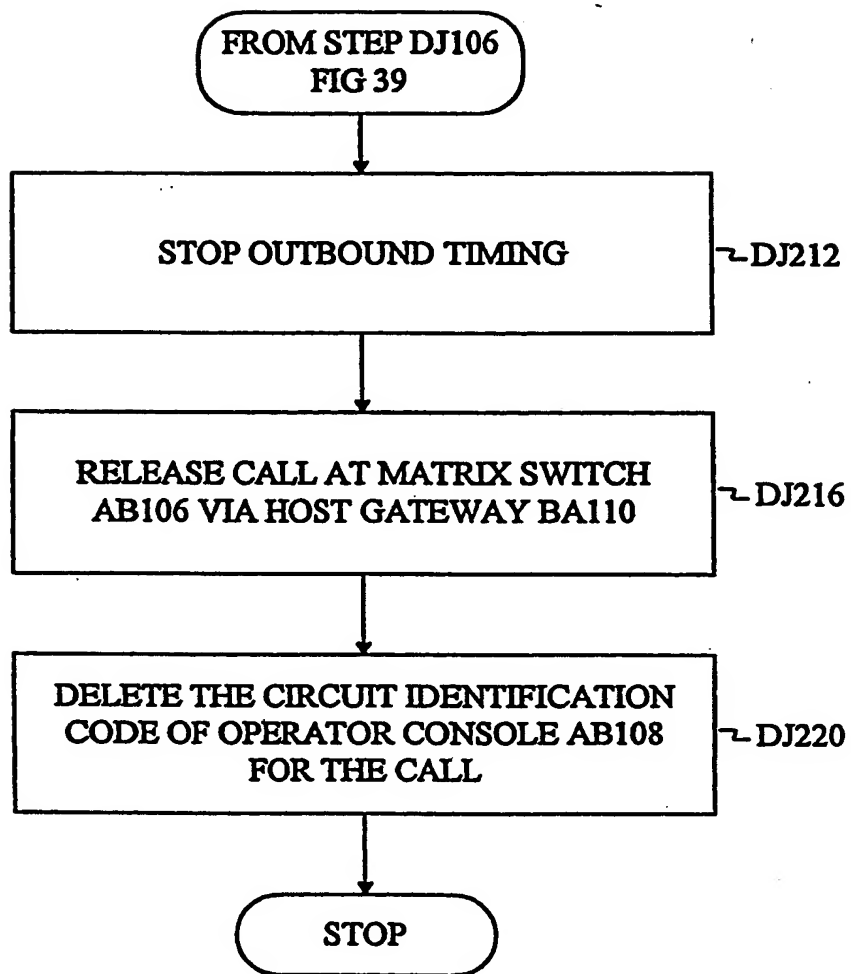


FIG 40

FIG 42	FIG 43
FIG 44	FIG 45

FIG 41

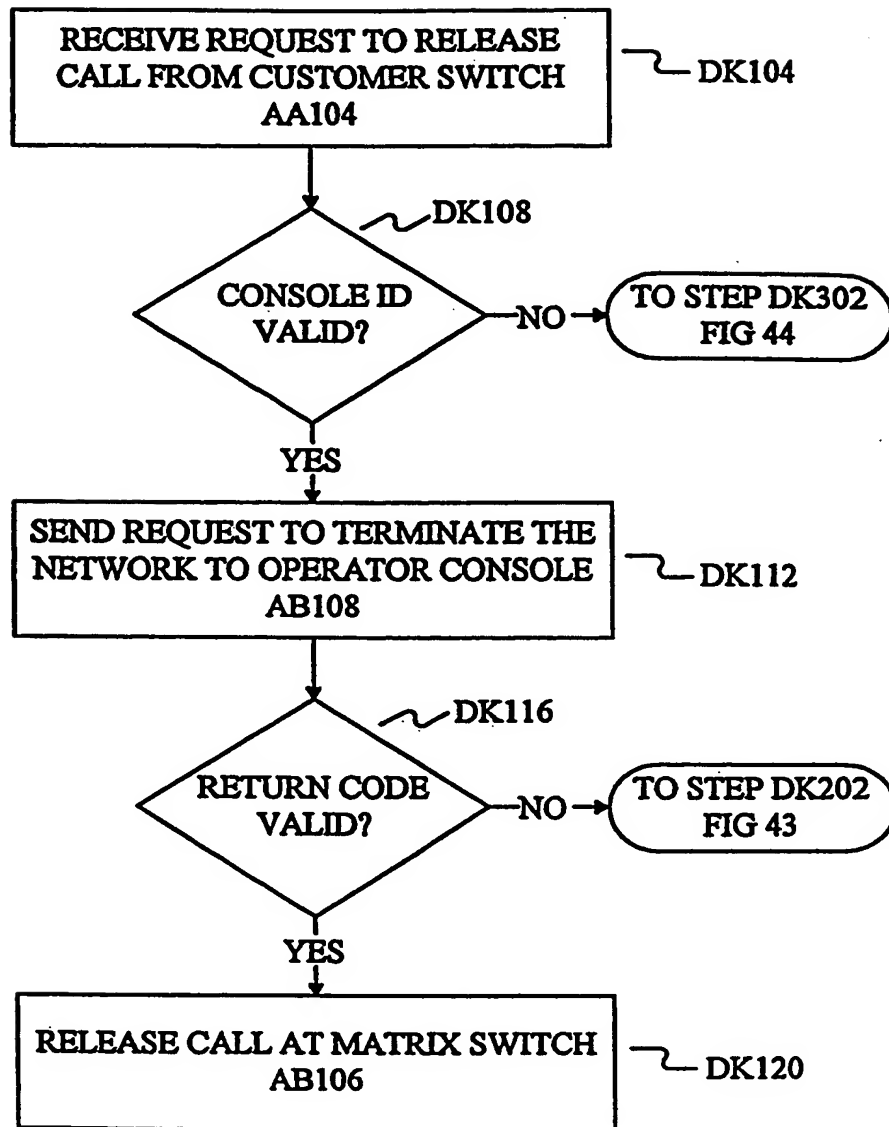


FIG 42

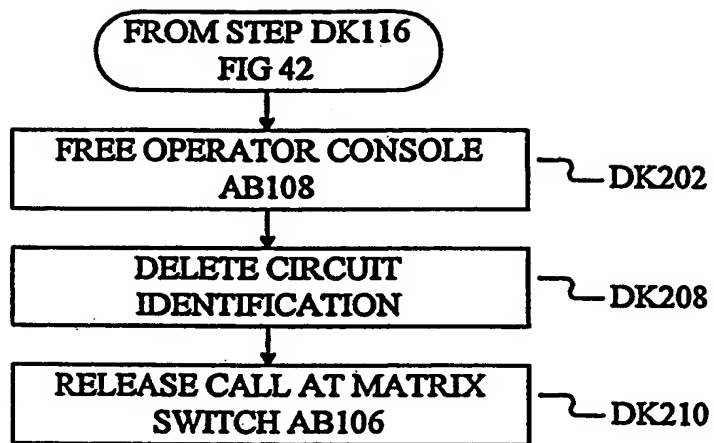


FIG 43

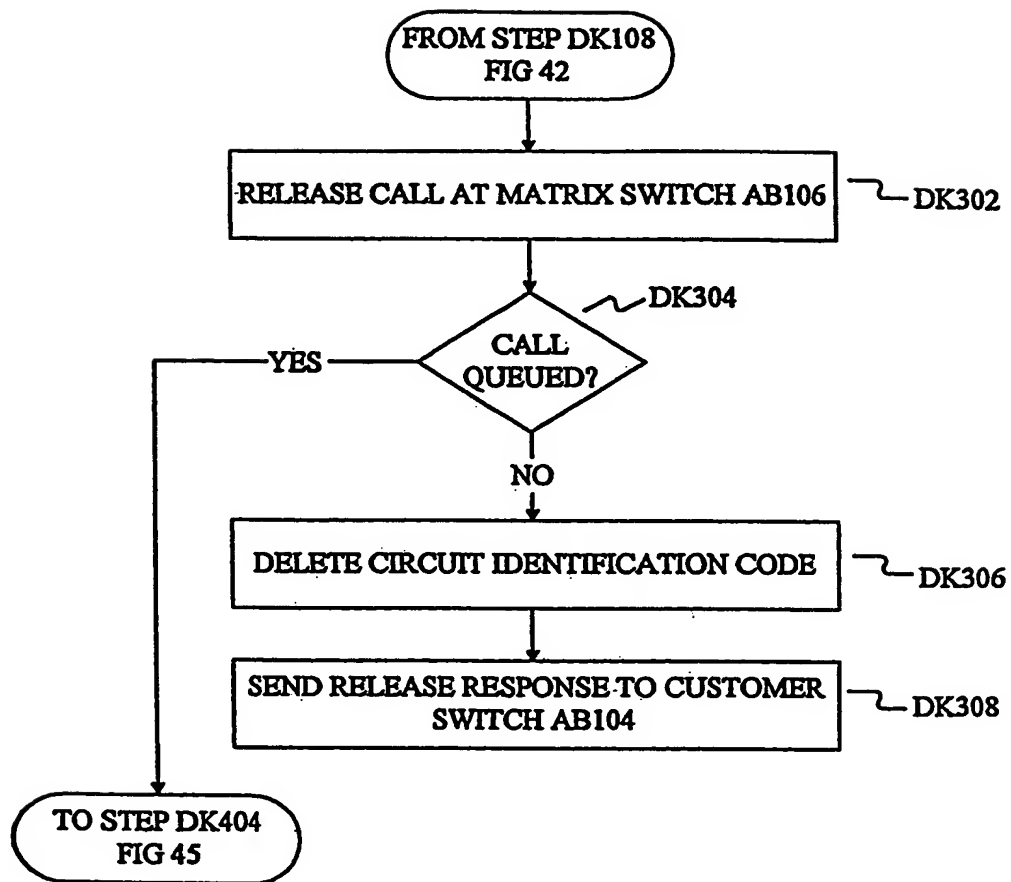


FIG 44

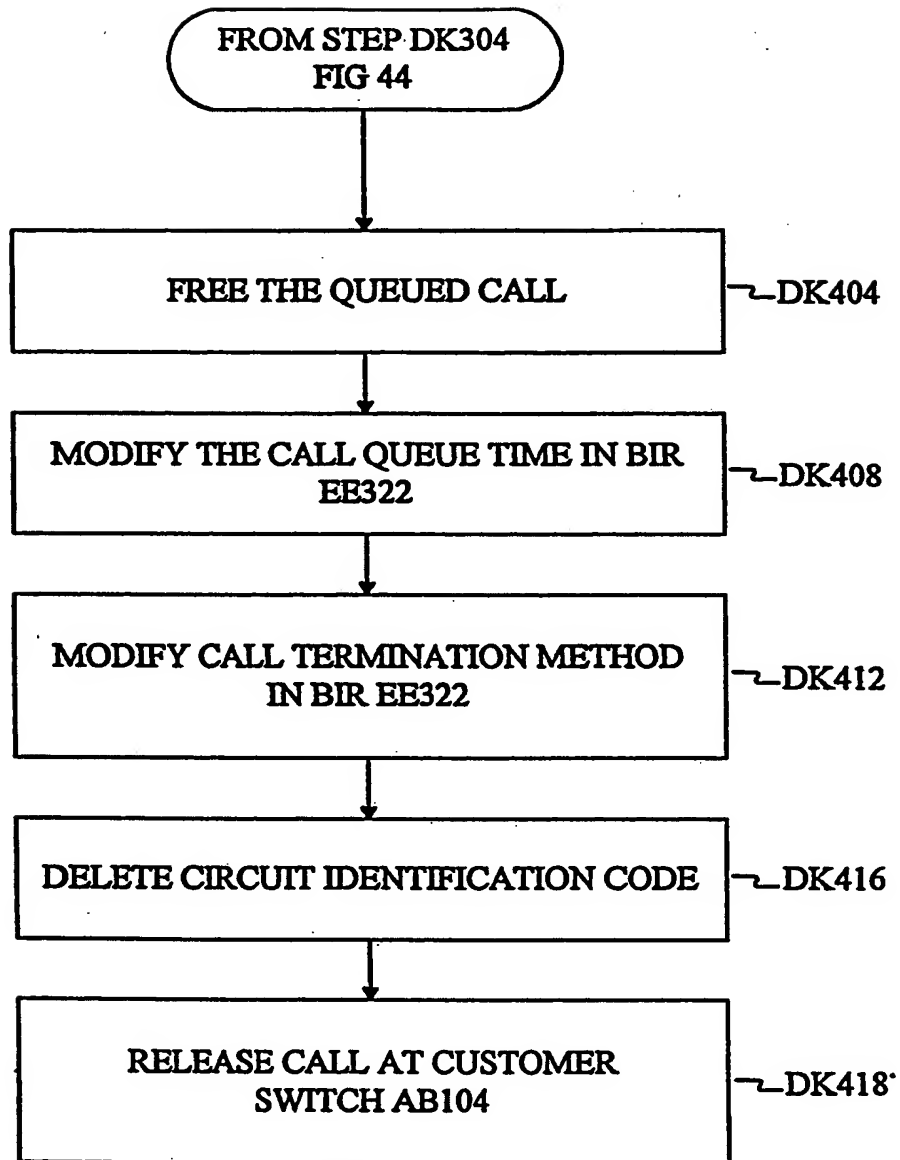


FIG 45

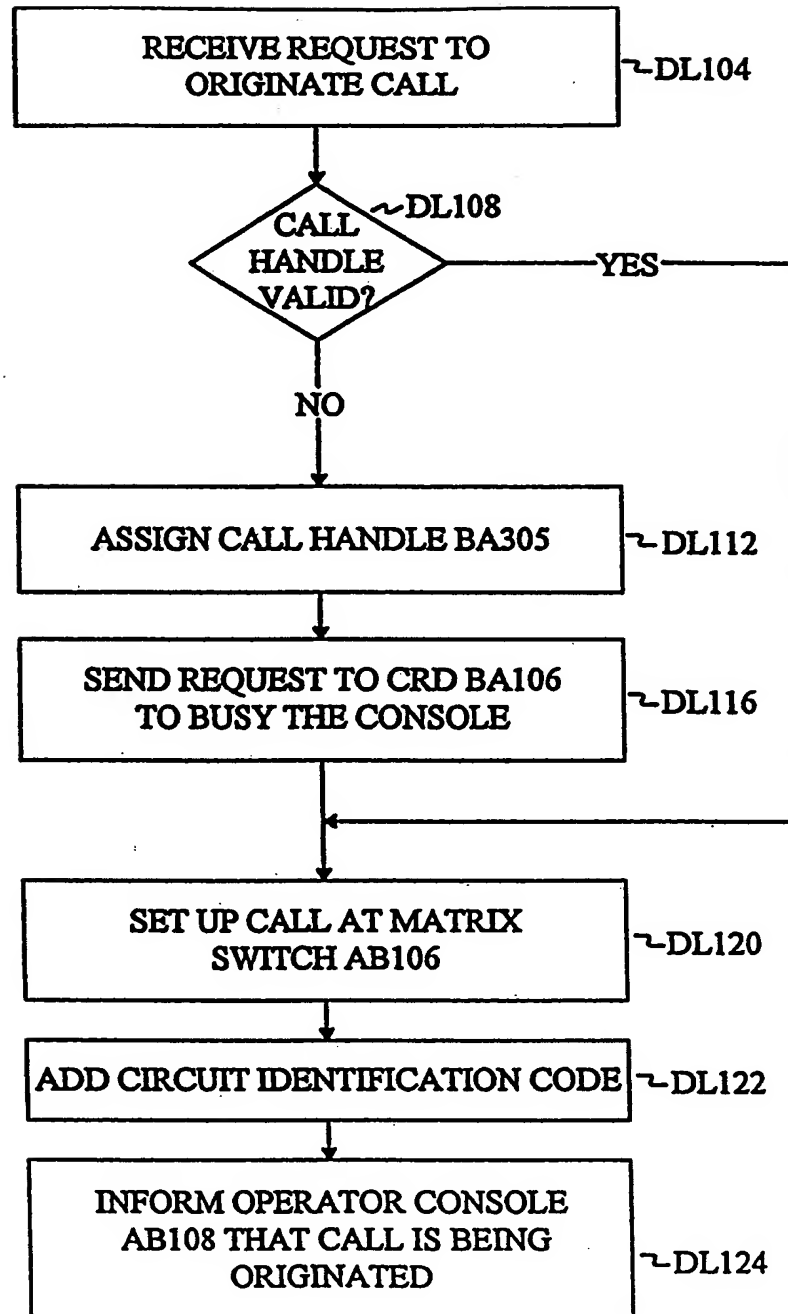


FIG 46

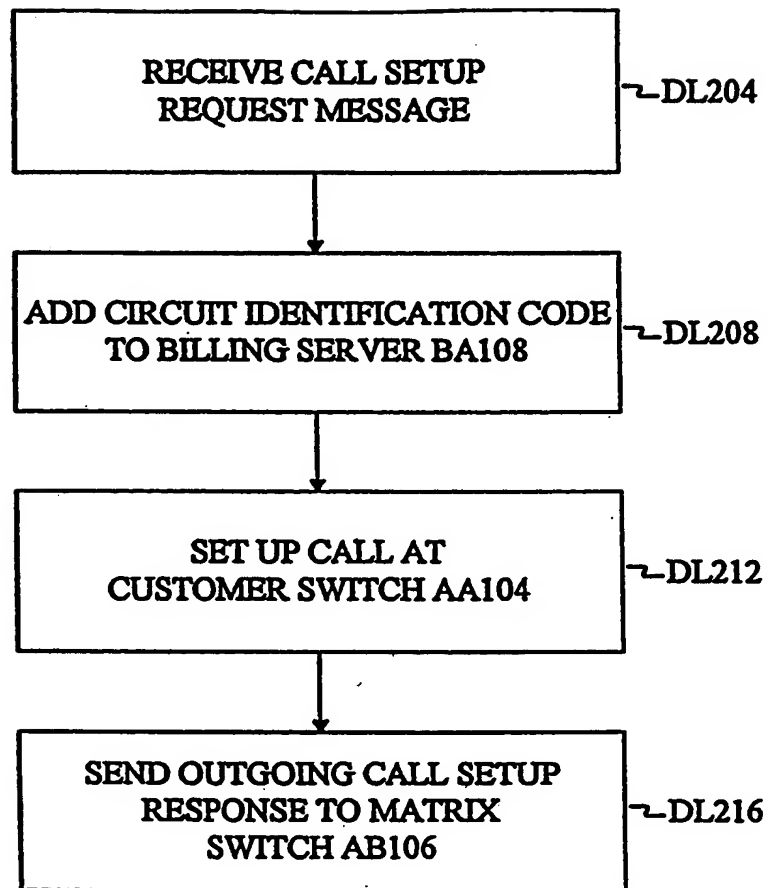


FIG 47

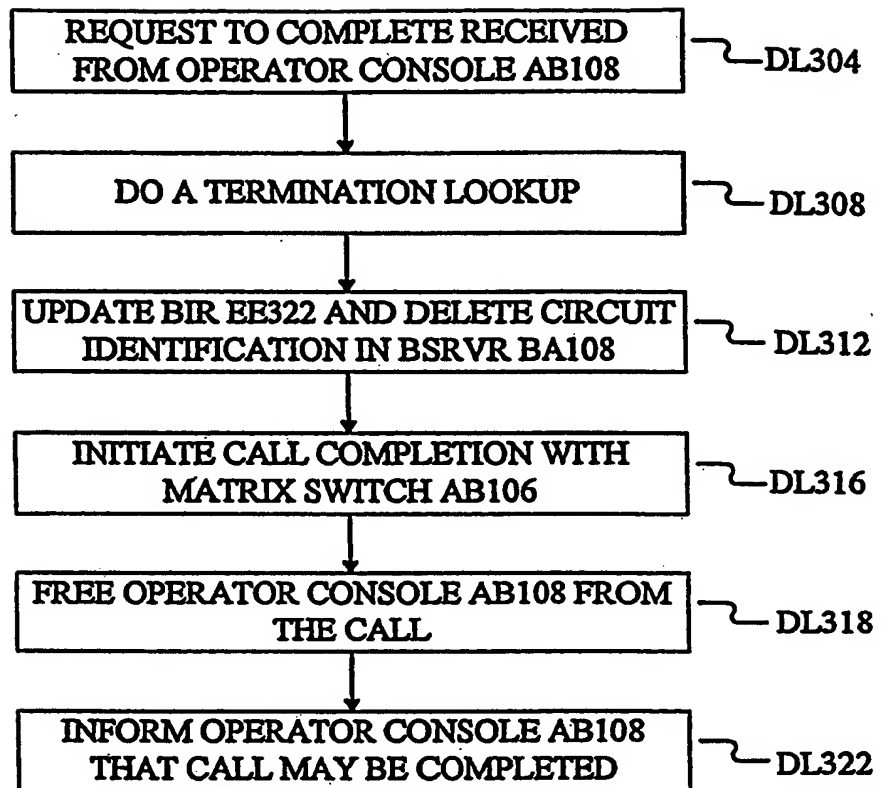


FIG 48

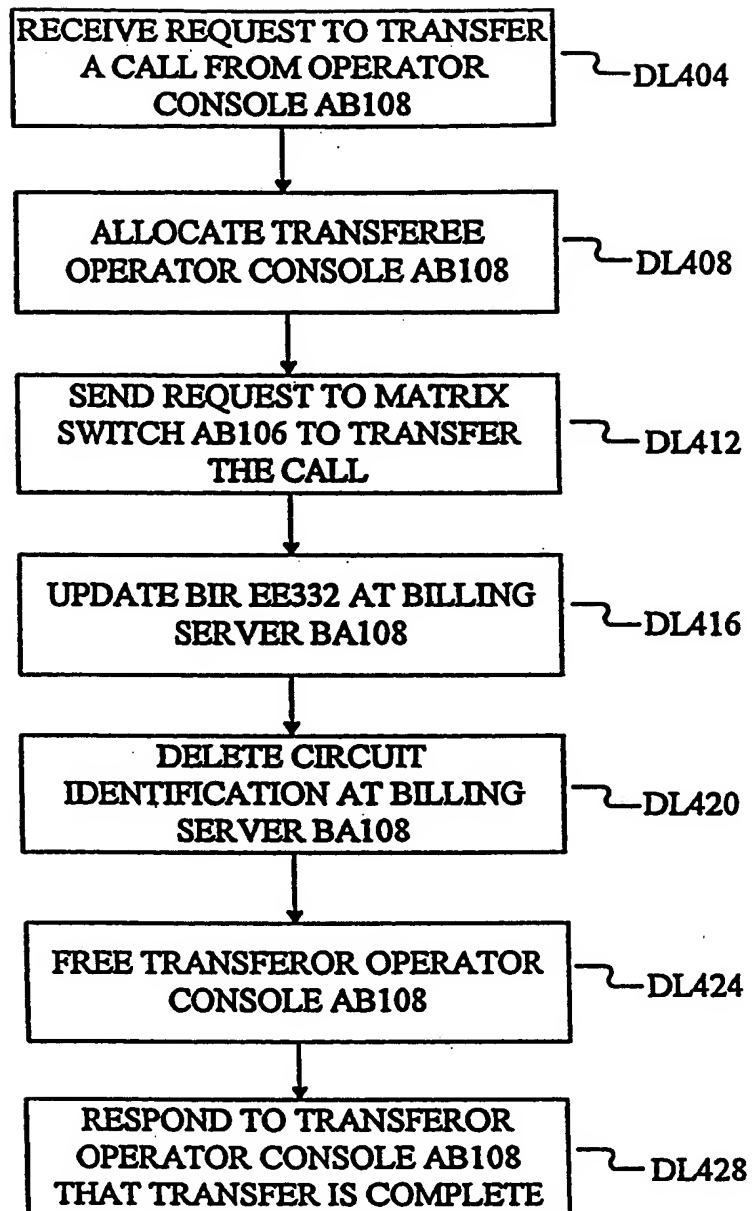


FIG 49

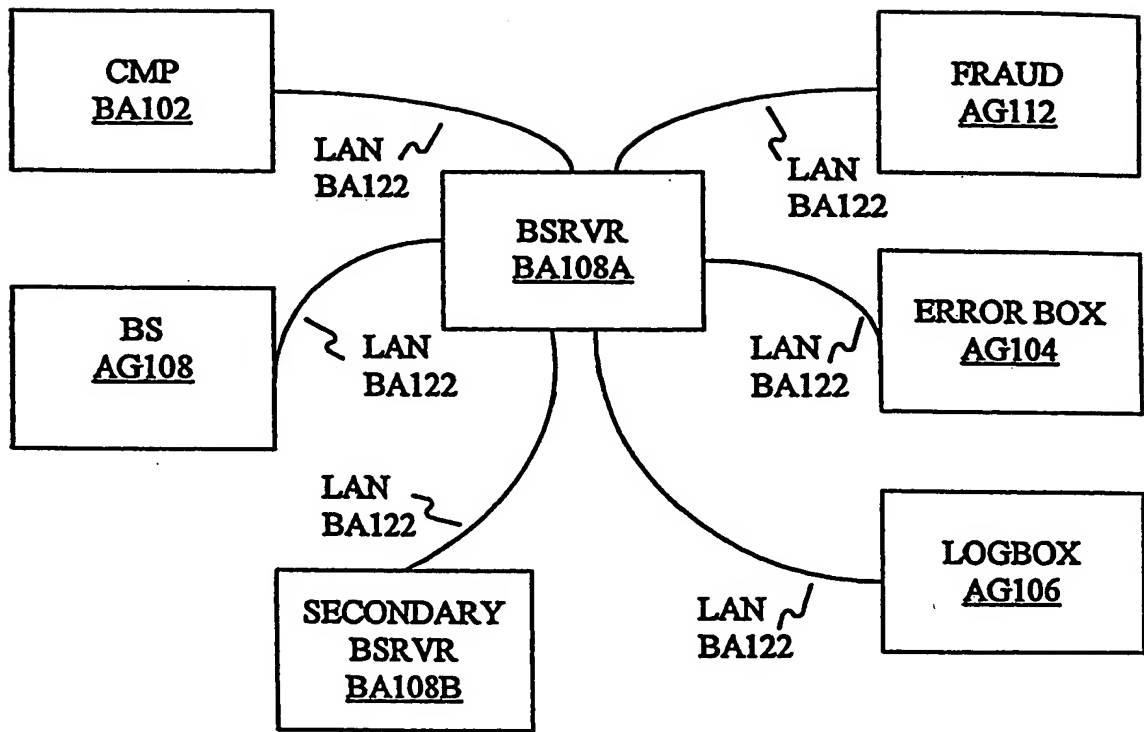


FIG 50

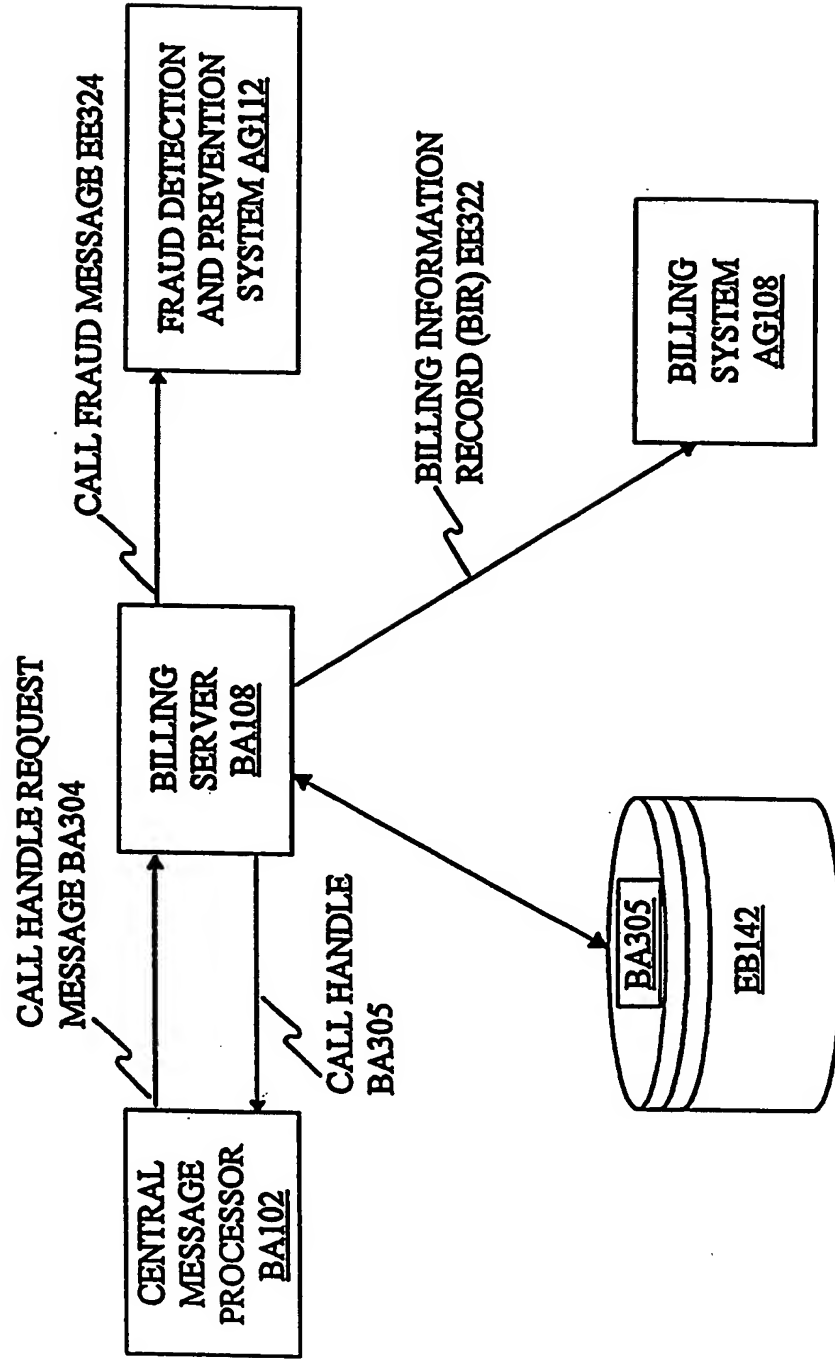


FIG 51

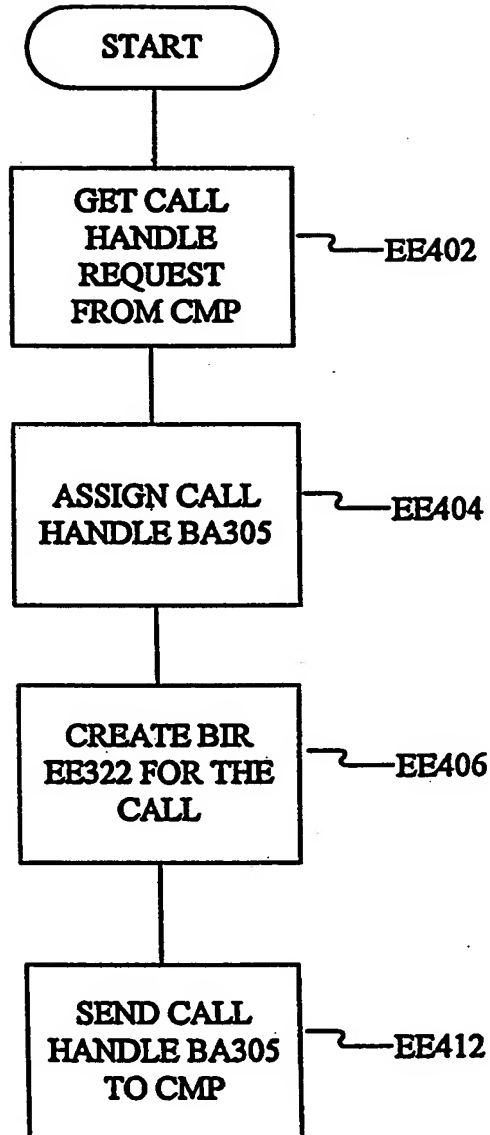


FIG 52

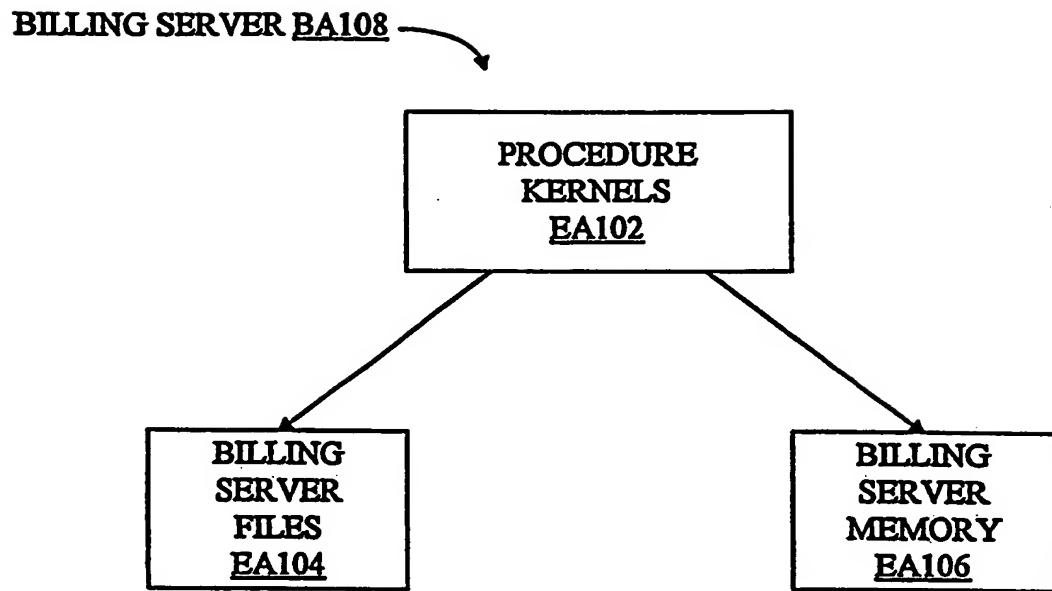


FIG 53

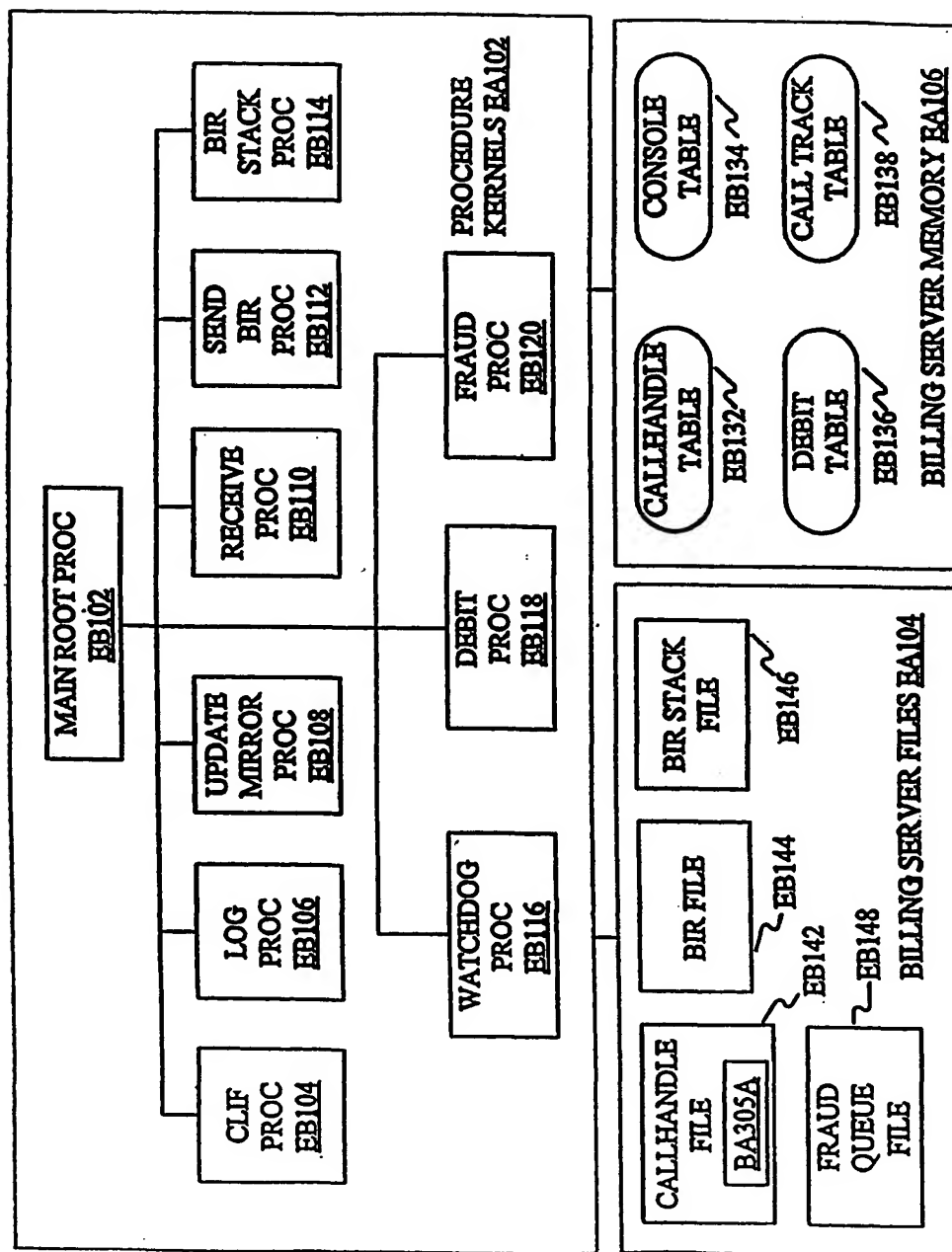


FIG 54

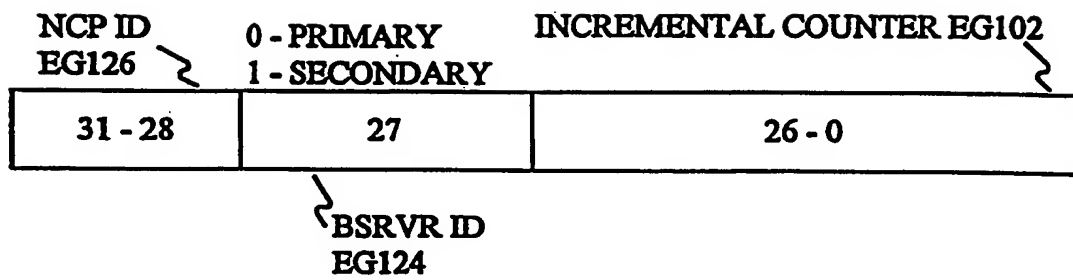


FIG 55

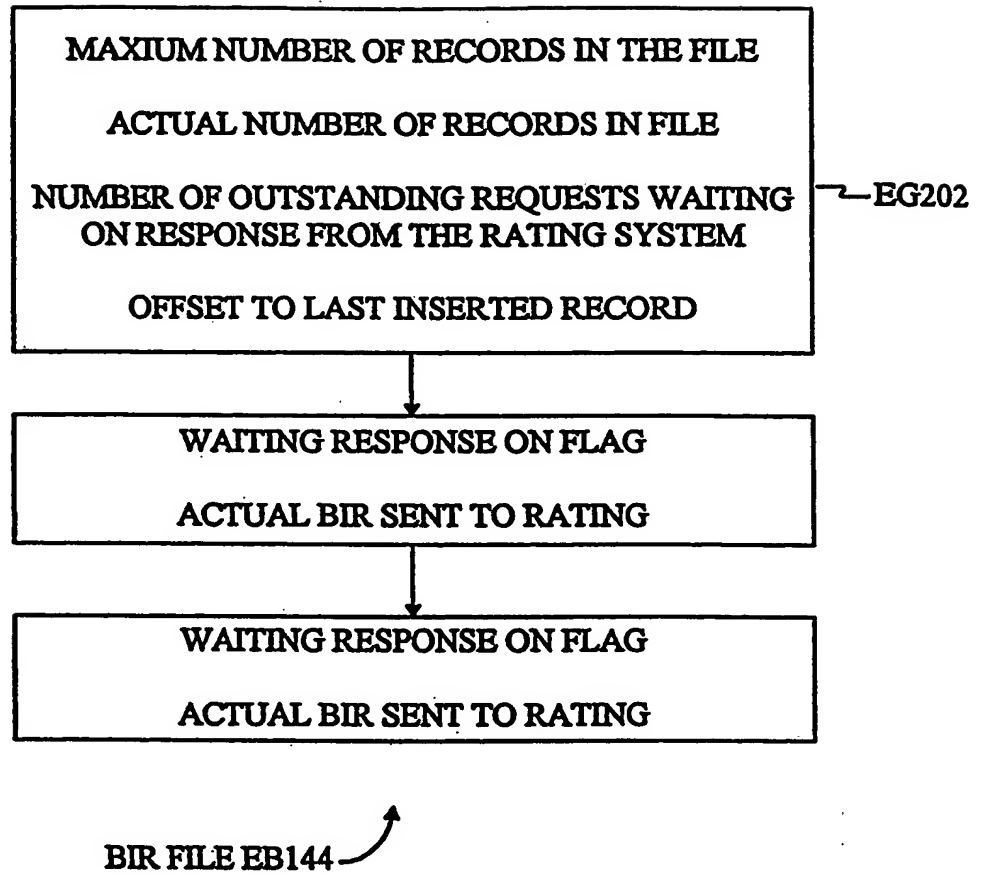


FIG 56



FIG 58

FIG 59

FIG 57

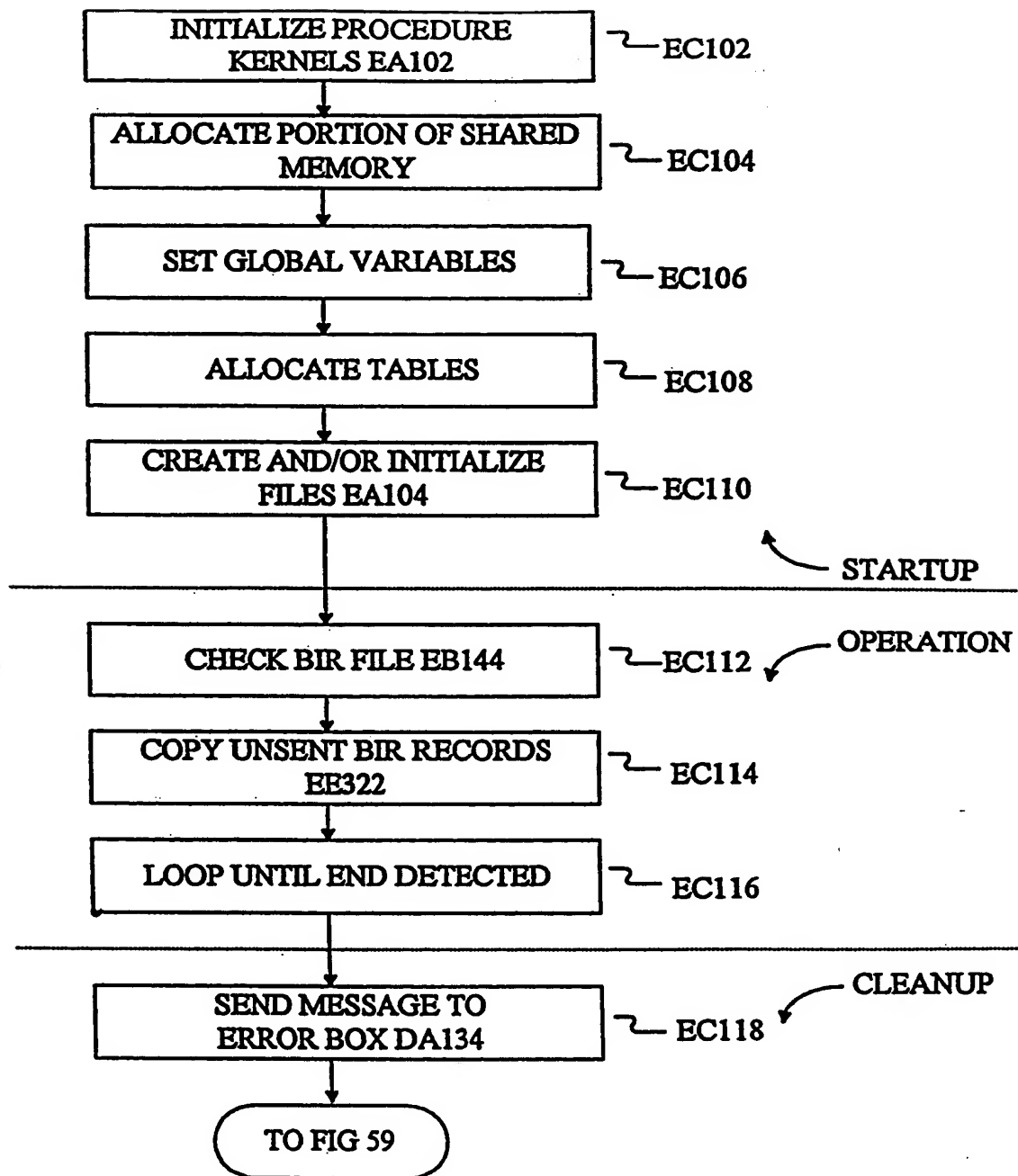


FIG 58

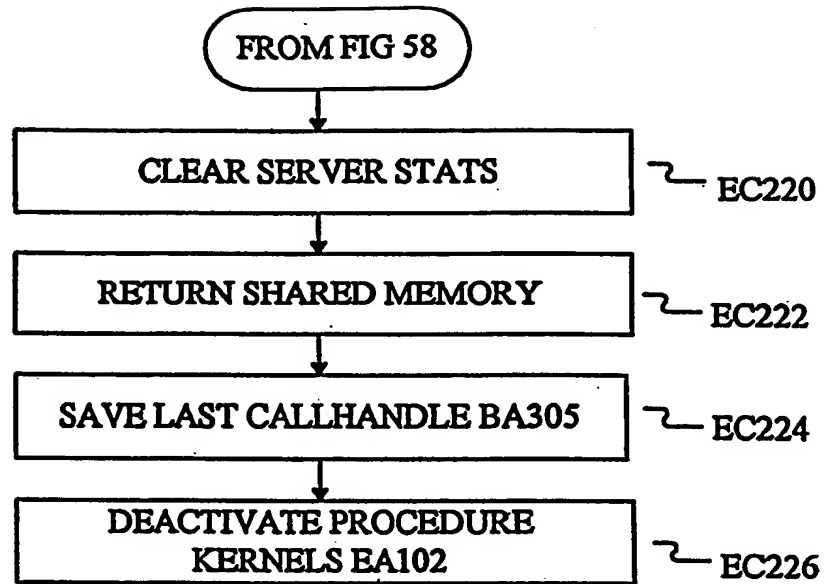


FIG 59

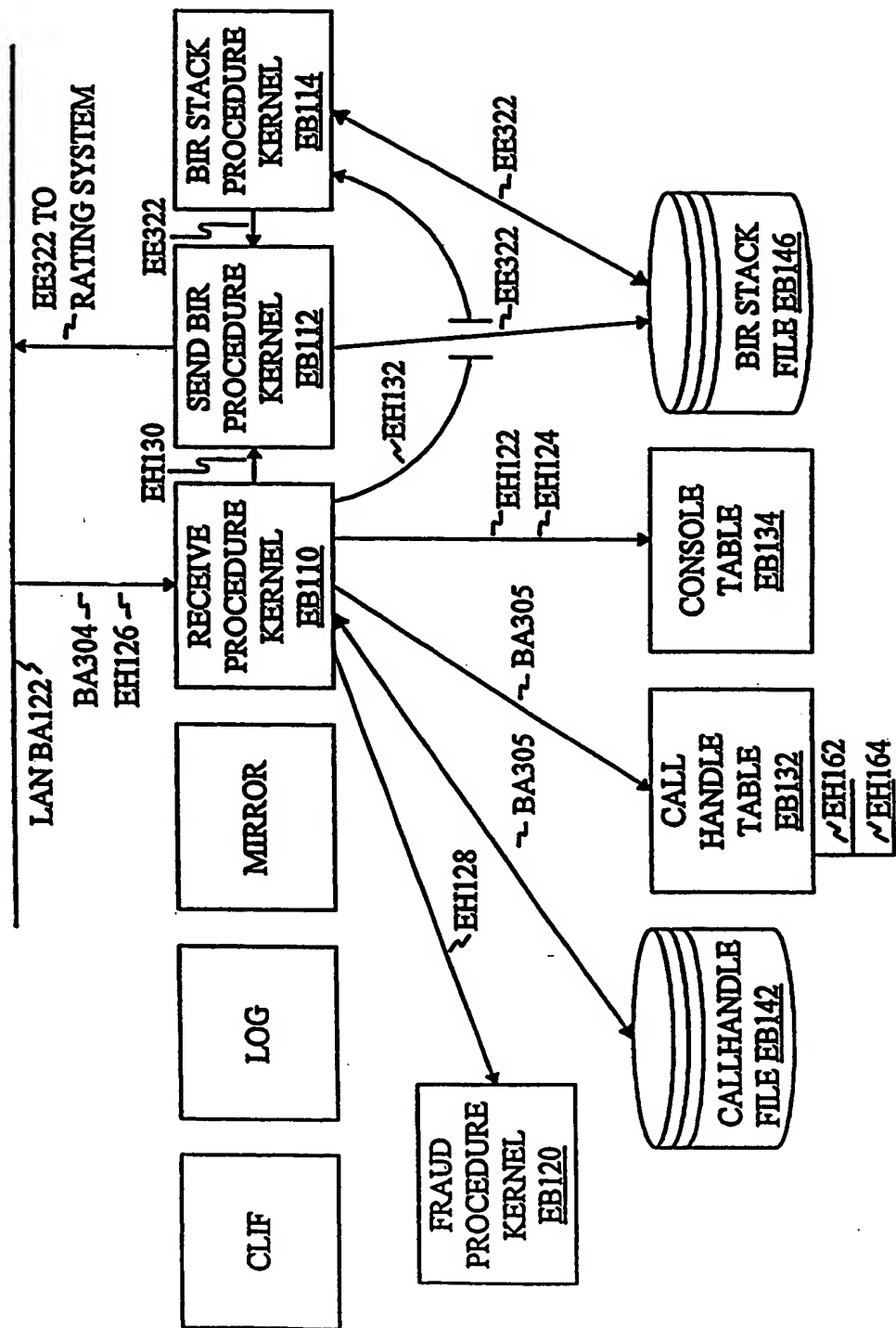


FIG 60

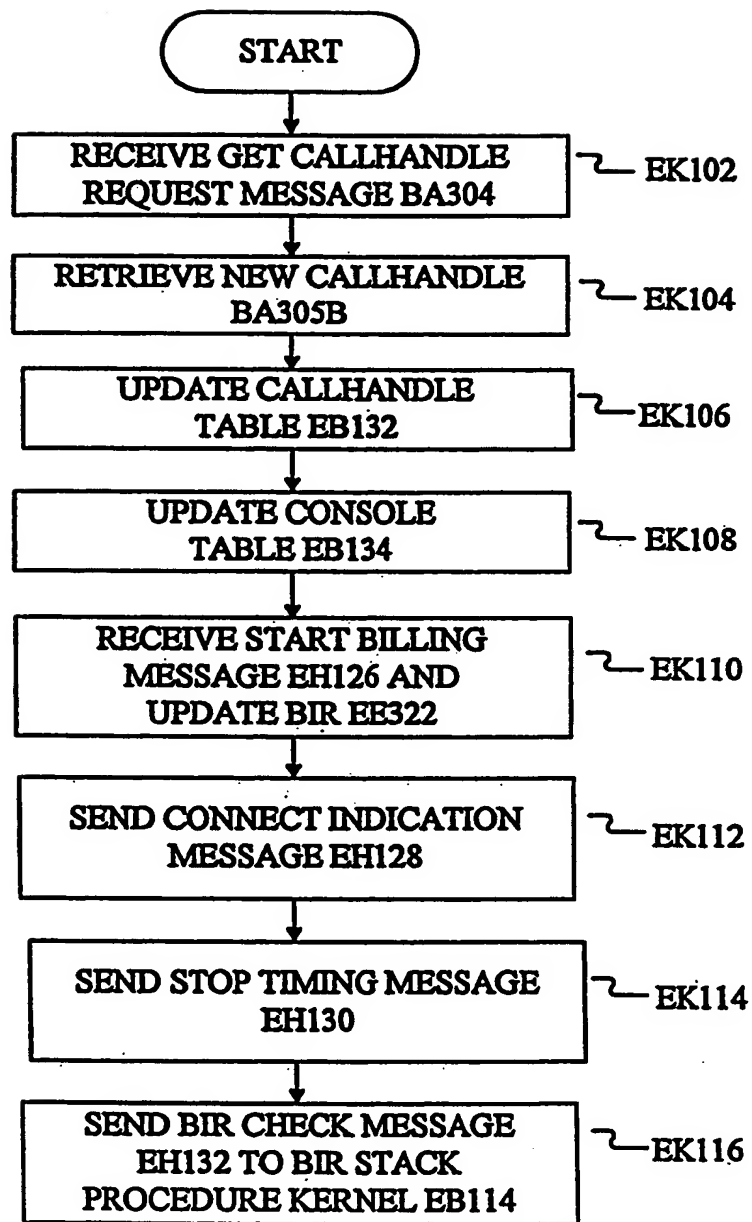


FIG 61

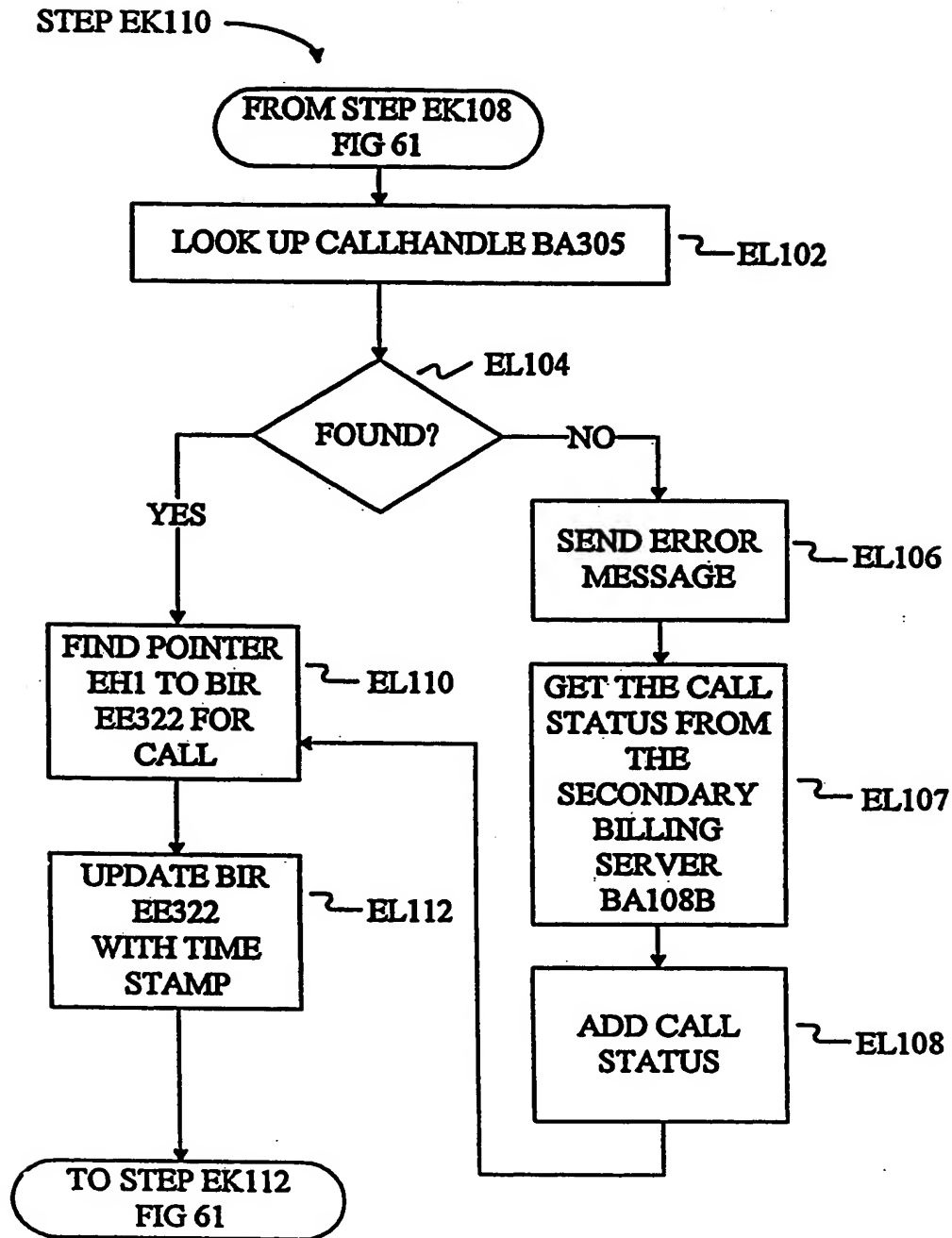


FIG 62

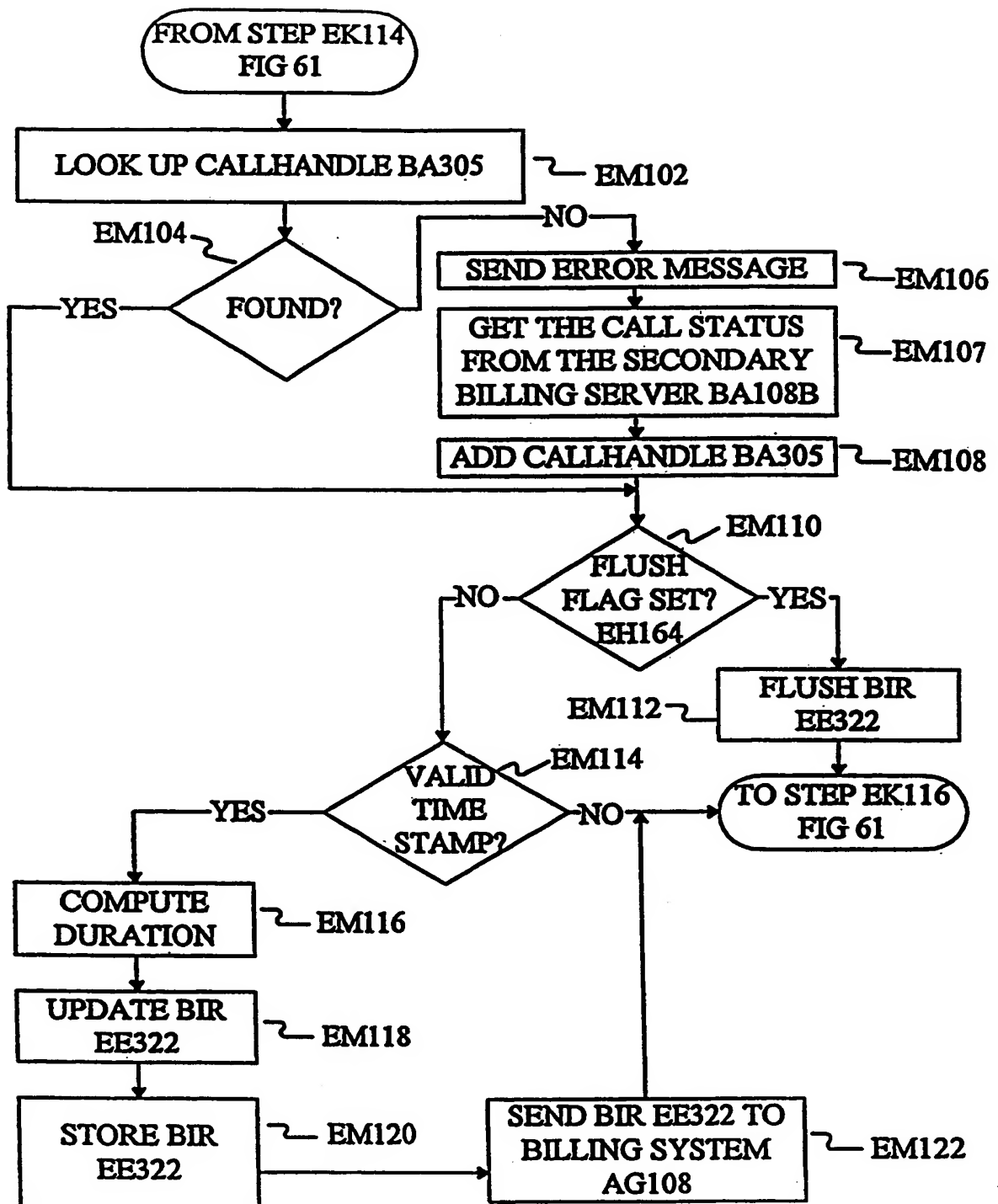


FIG 63

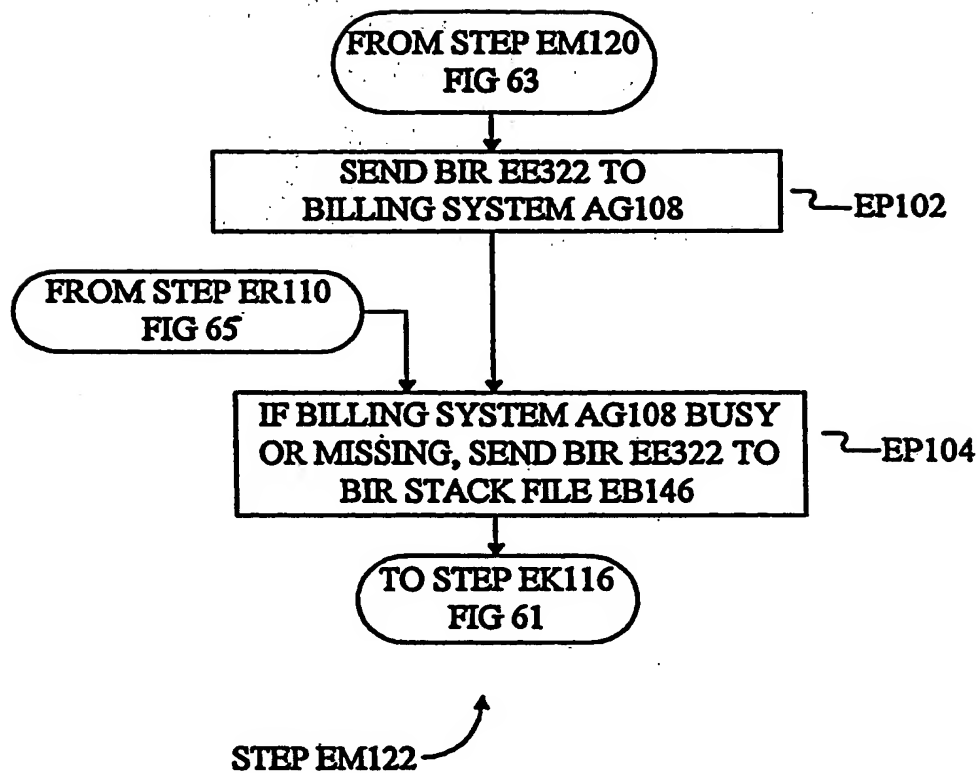


FIG 64

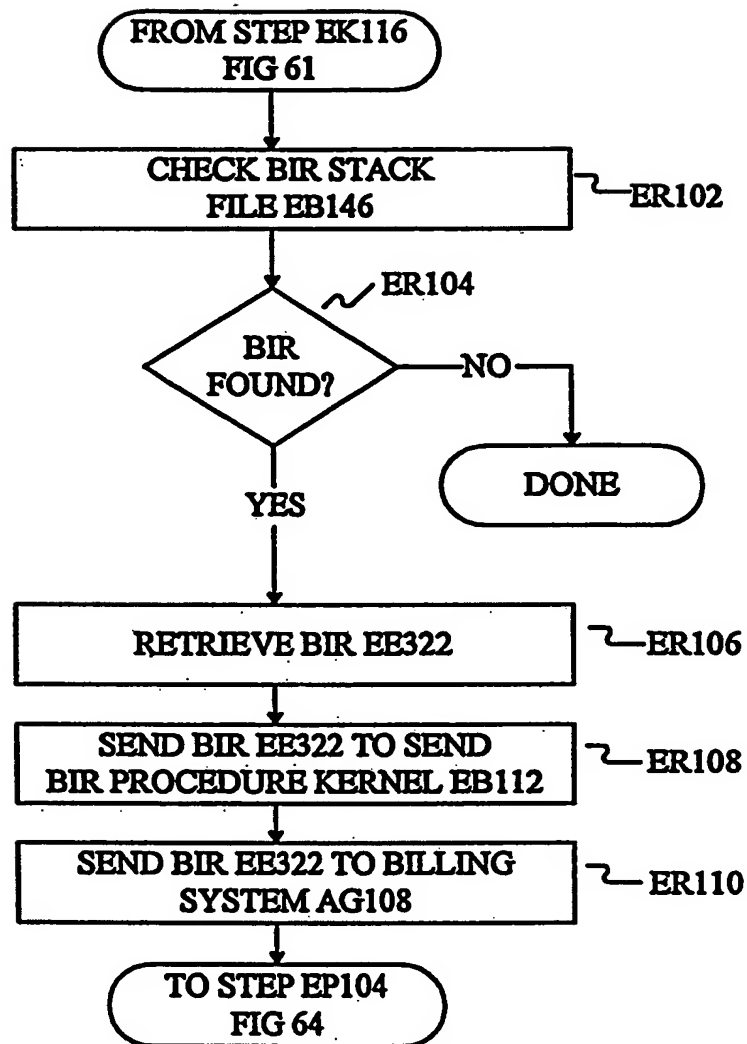


FIG 65

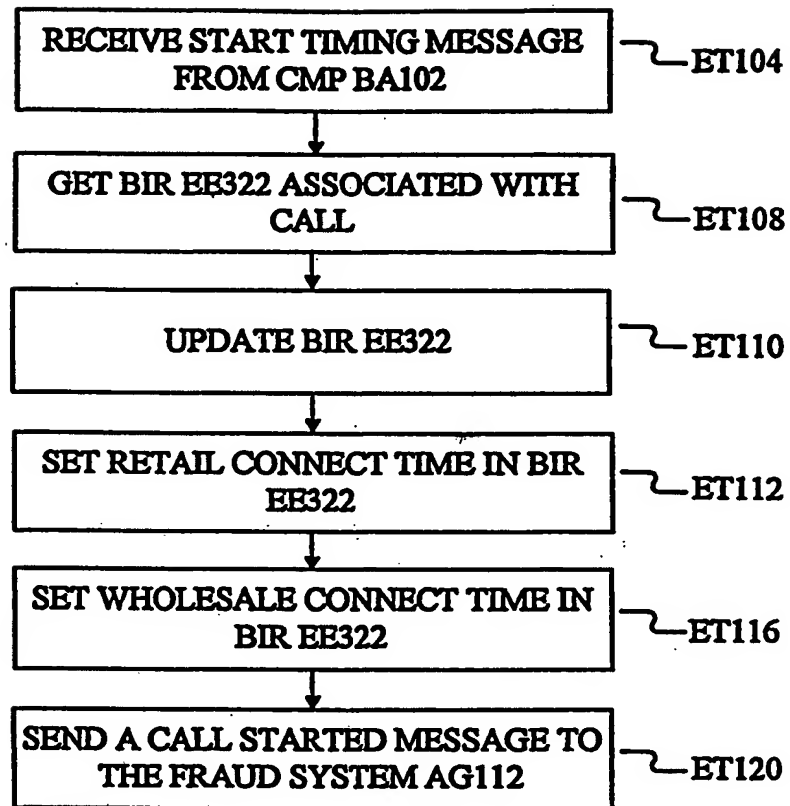


FIG 66

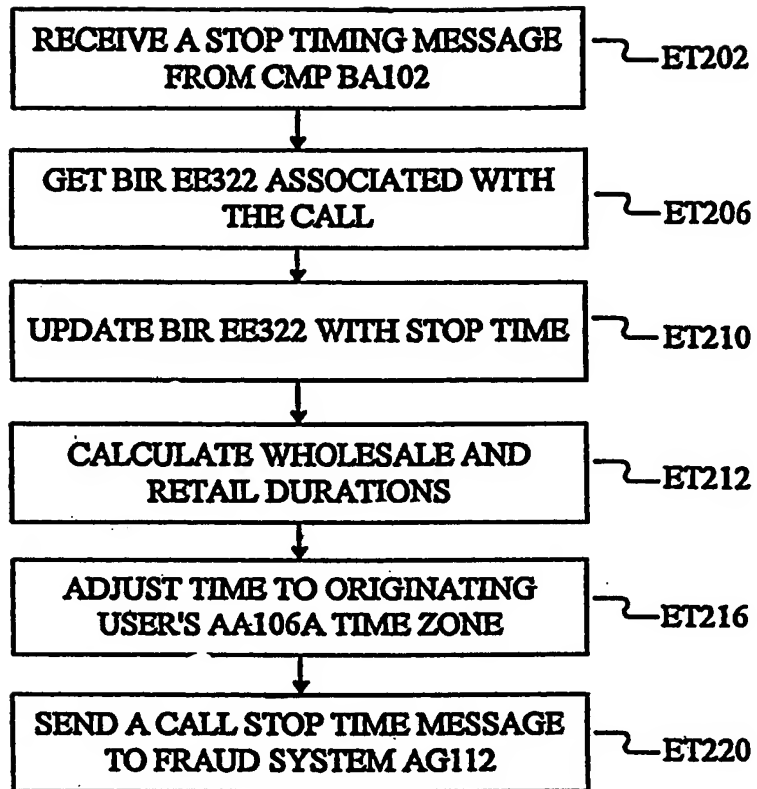


FIG 67

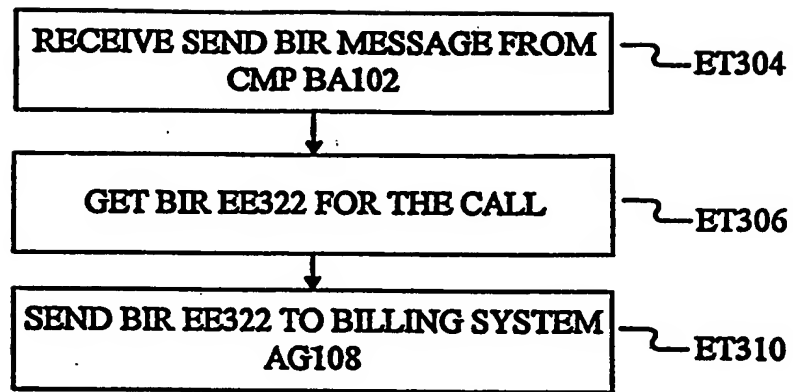


FIG 68

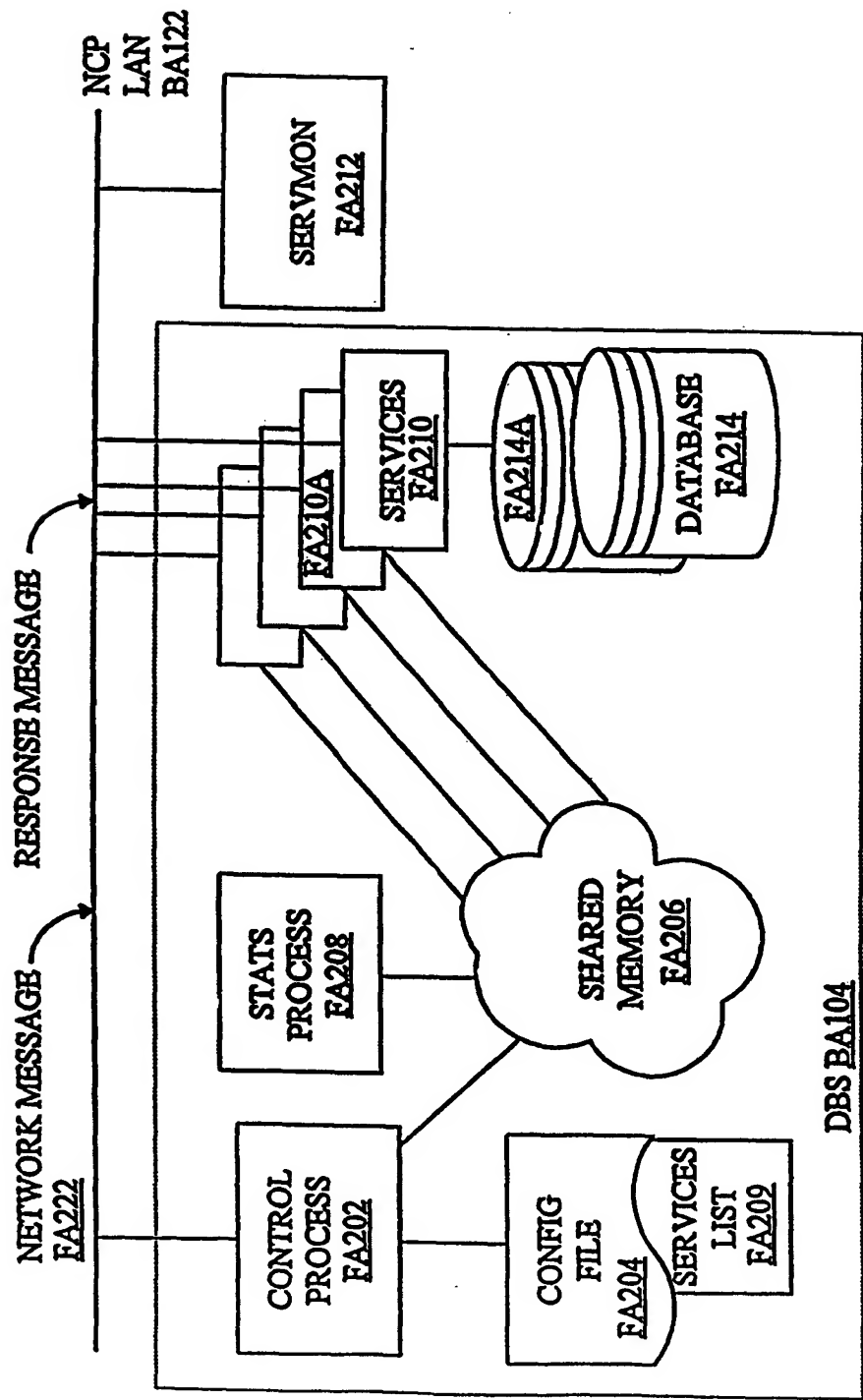


FIG 69

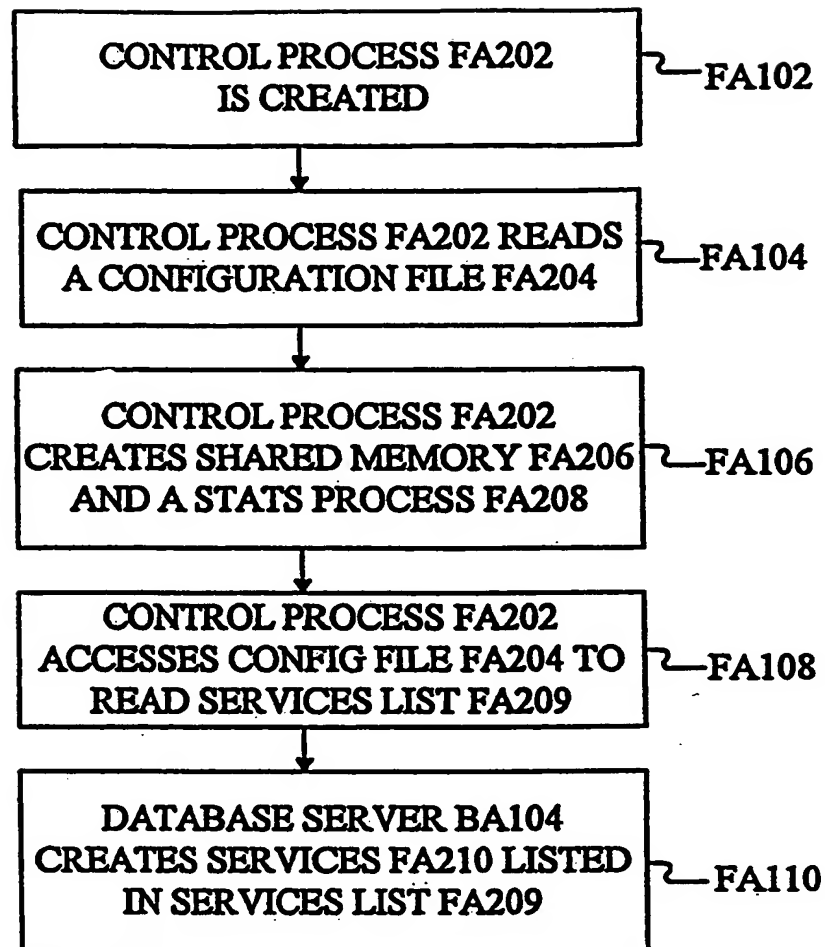


FIG 70

FIG 72

FIG 73

FIG 71

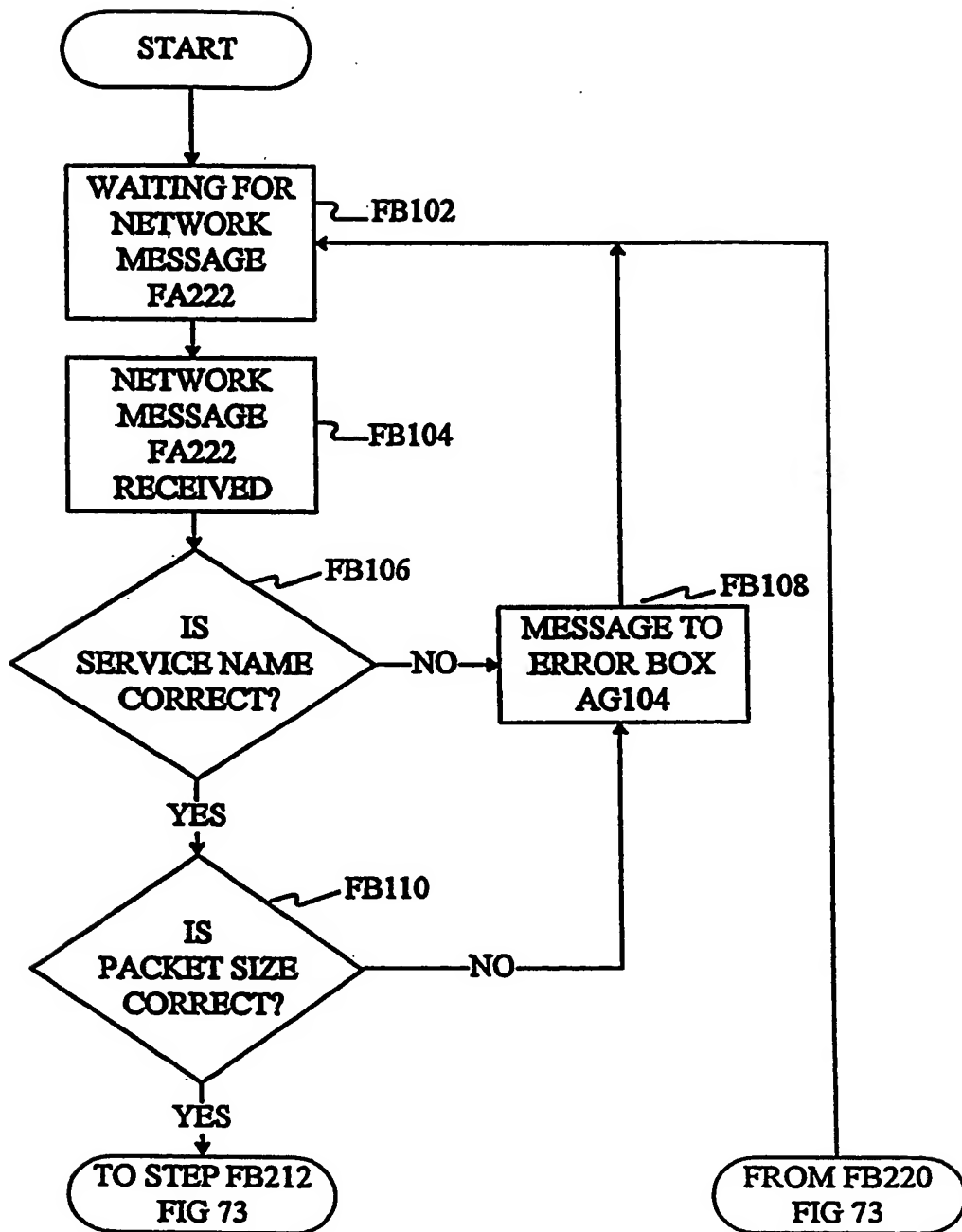


FIG 72

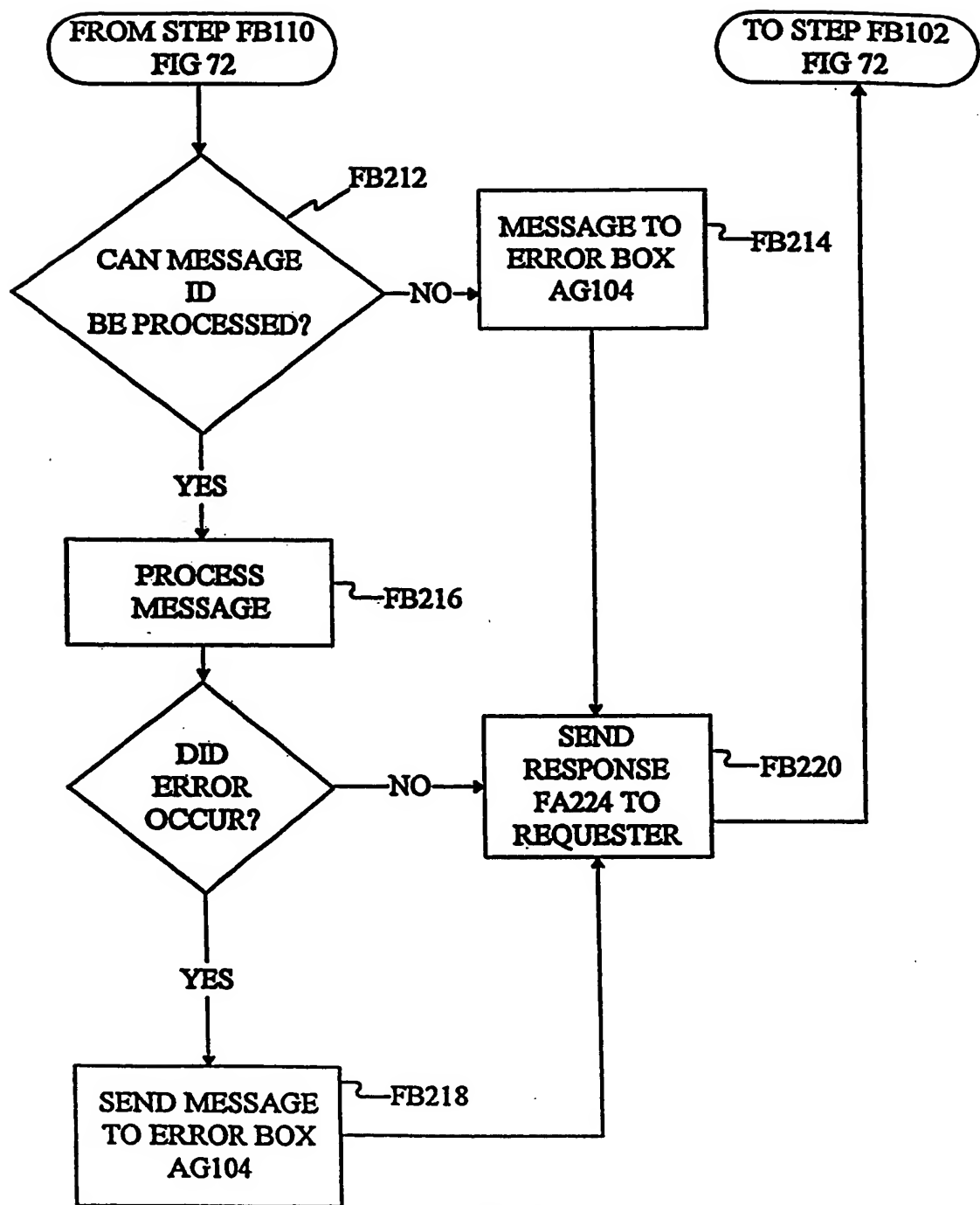


FIG 73

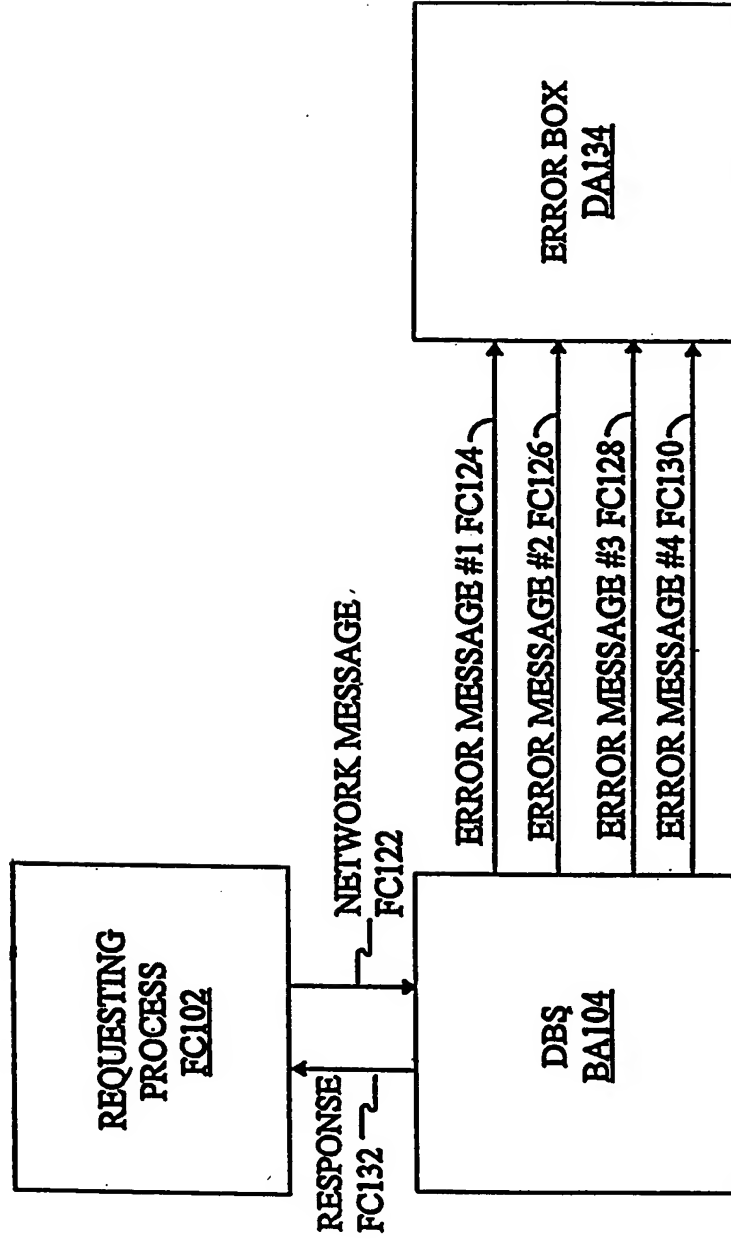


FIG 74

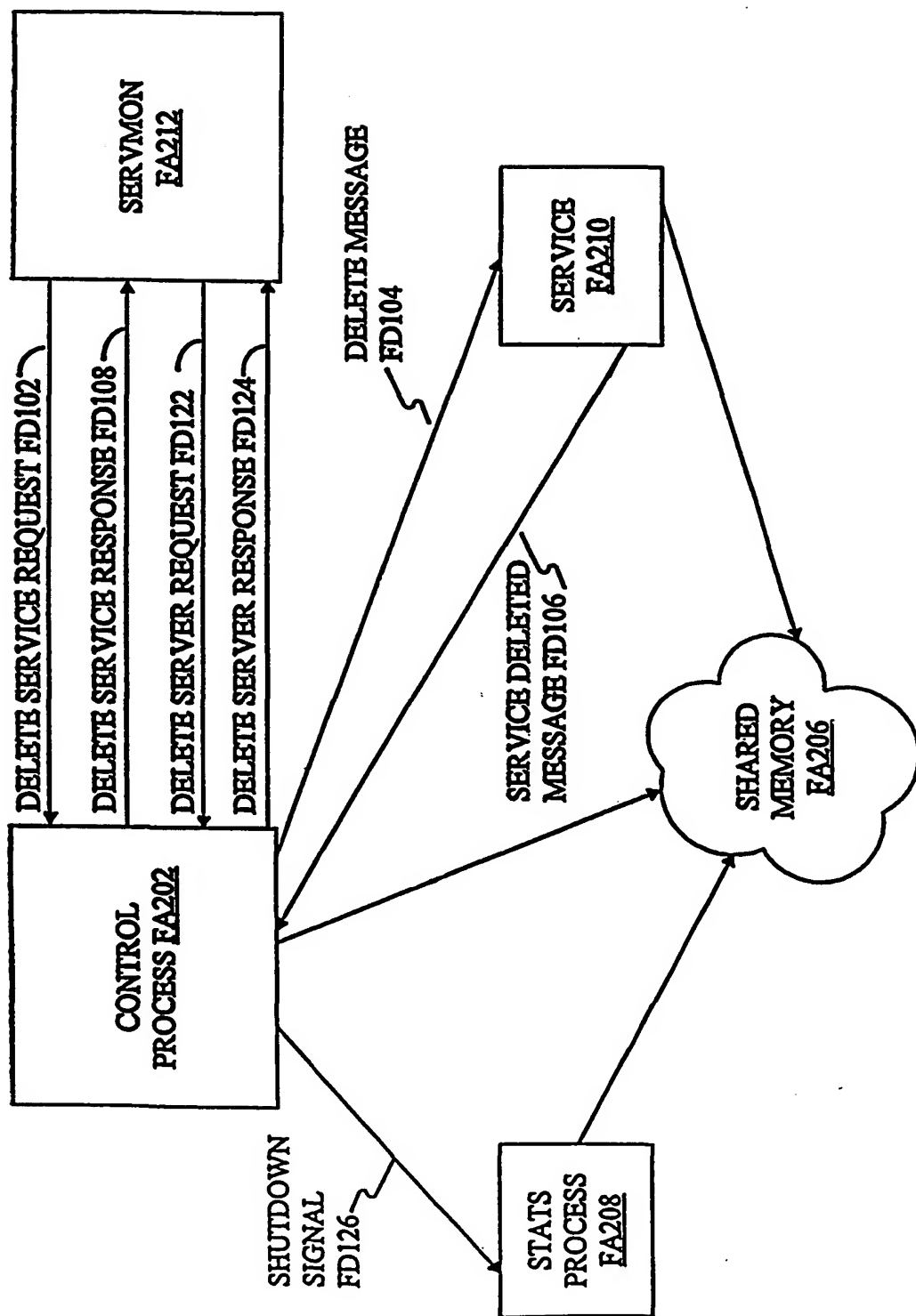


FIG 75

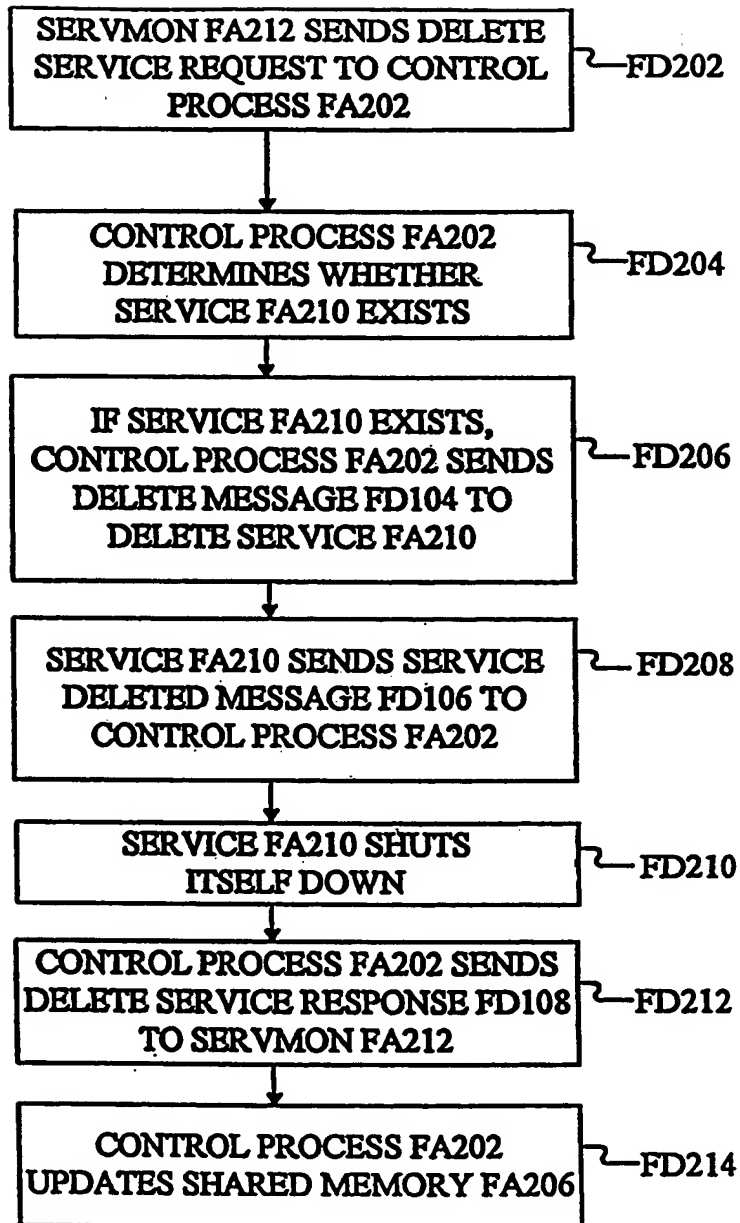


FIG 76

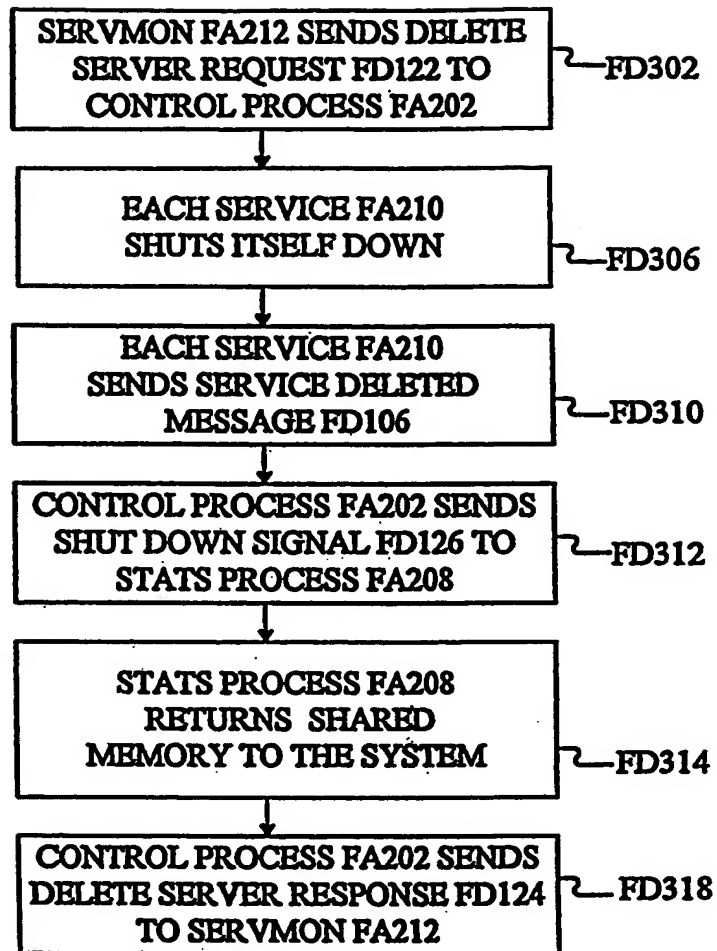


FIG 77

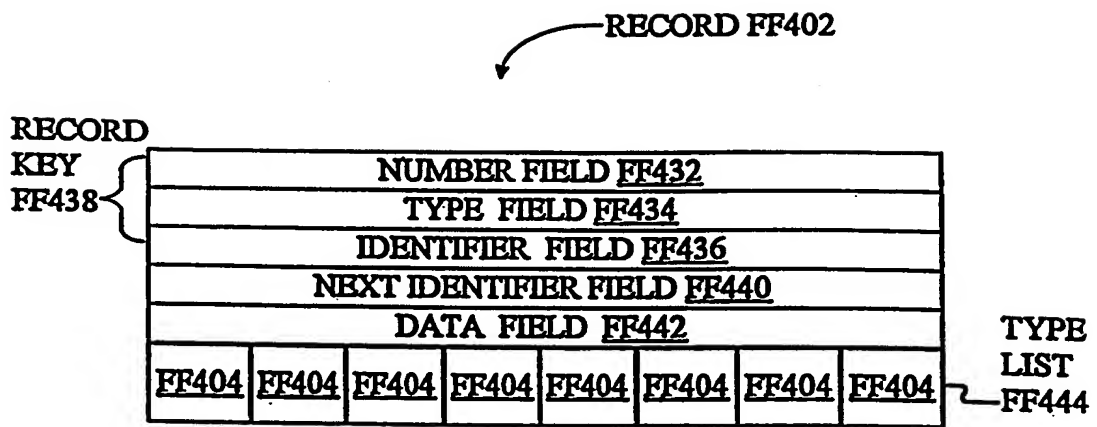


FIG 78A

SEARCH KEY FF802 ↘

NUMBER FIELD <u>FF832</u>
TYPE FIELD <u>FF834</u>
IDENTIFIER <u>FF836</u>

DEFAULT RECORD FF804 ↘

DEFAULT DATA <u>FF844</u>

FIG 78B

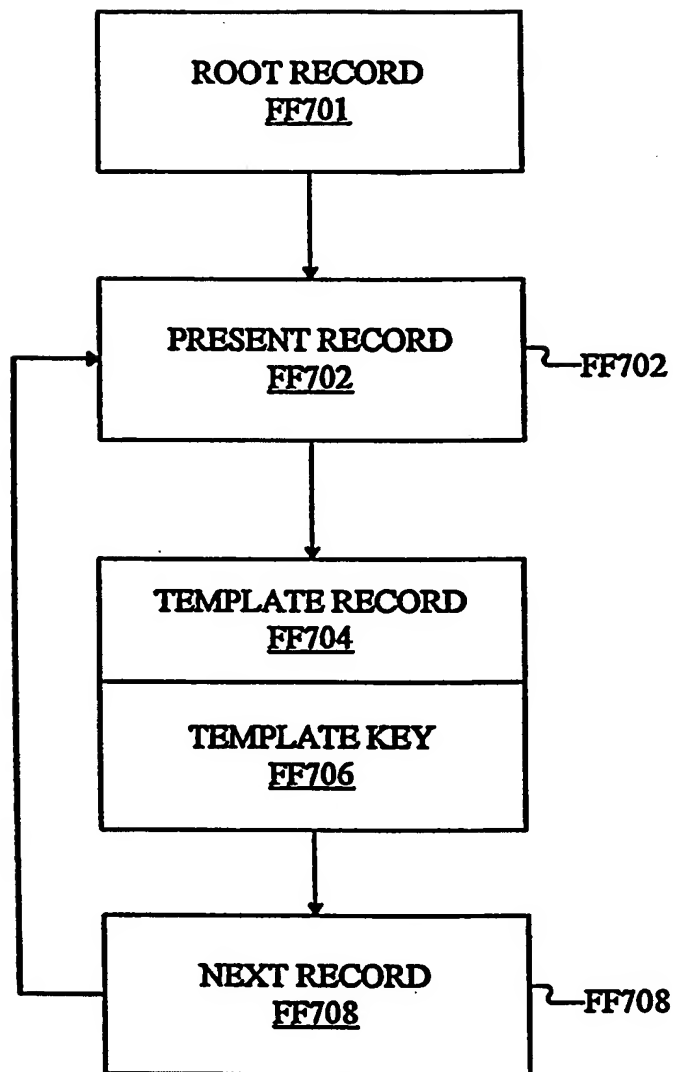


FIG 79

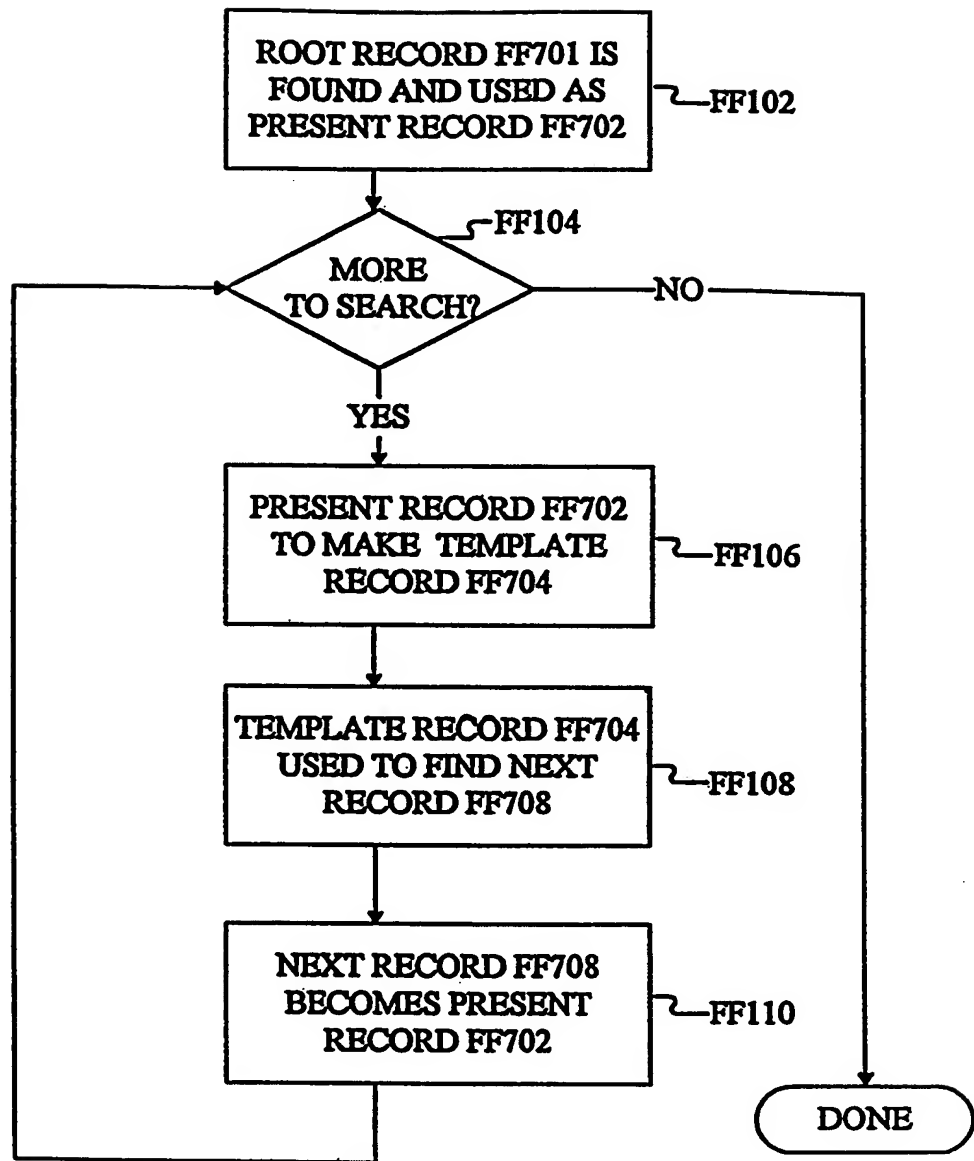


FIG 80

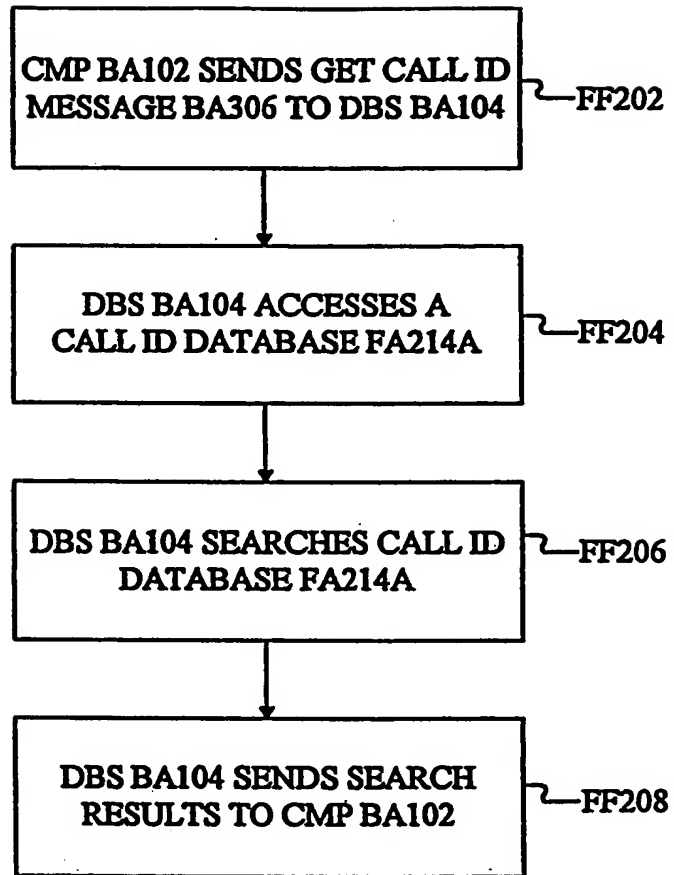
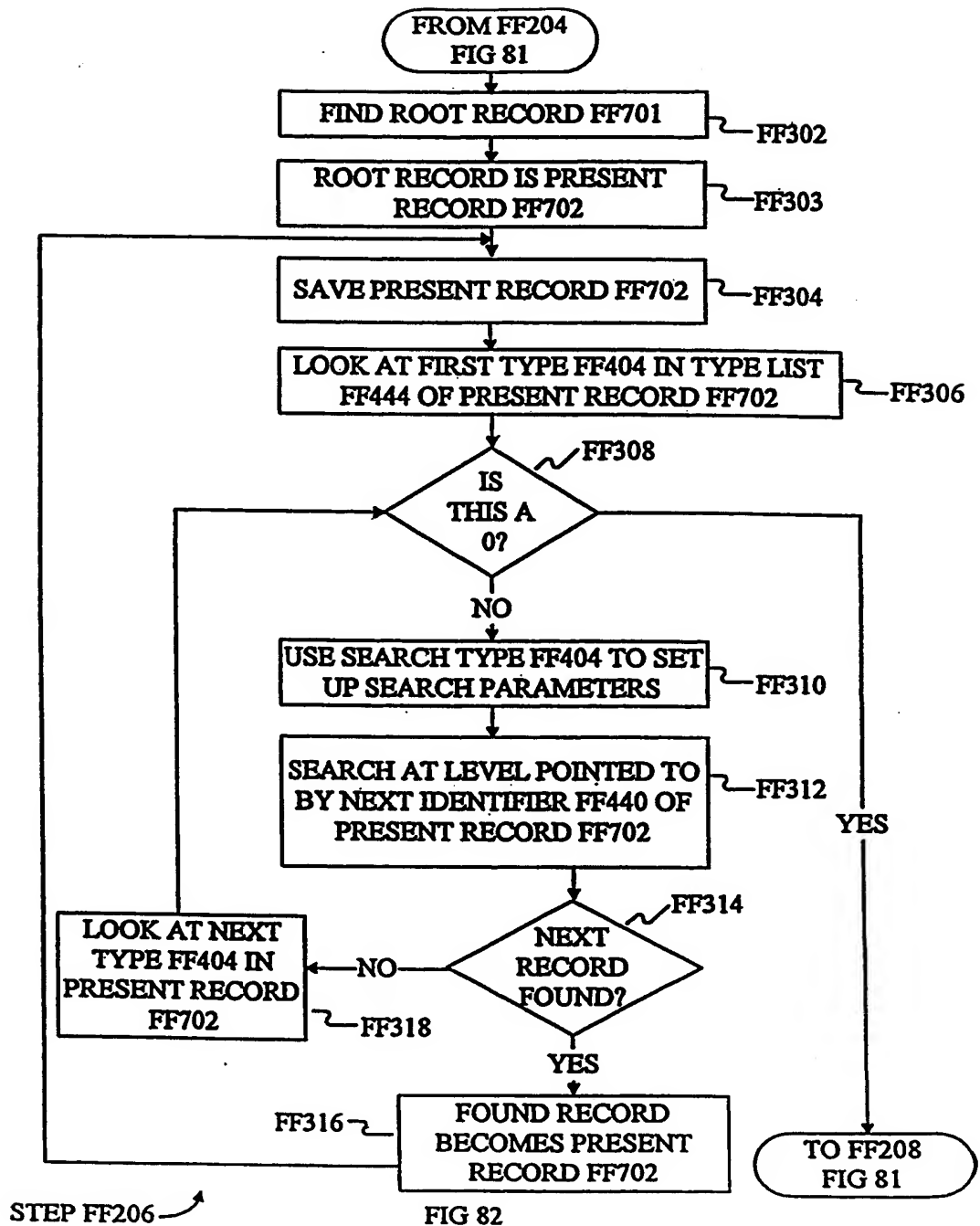


FIG 81



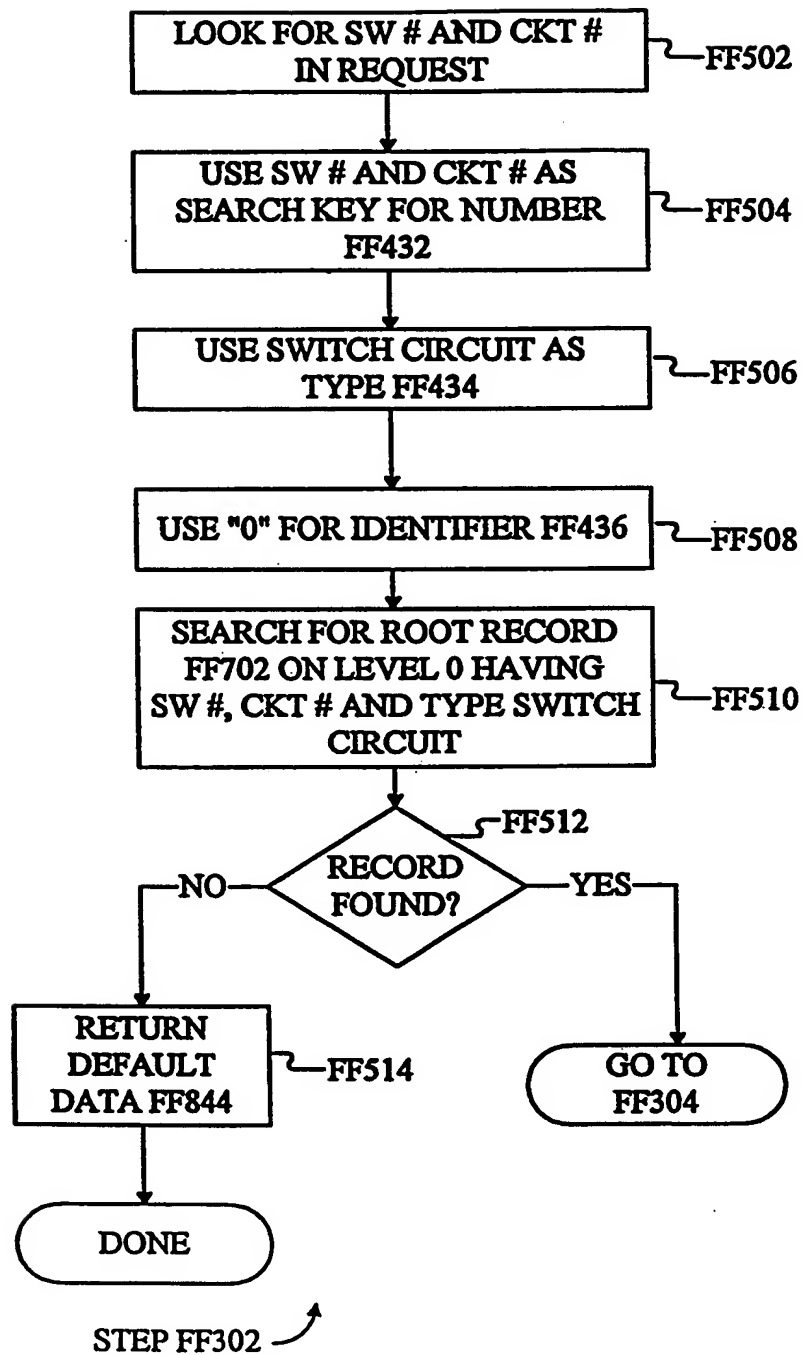


FIG 83

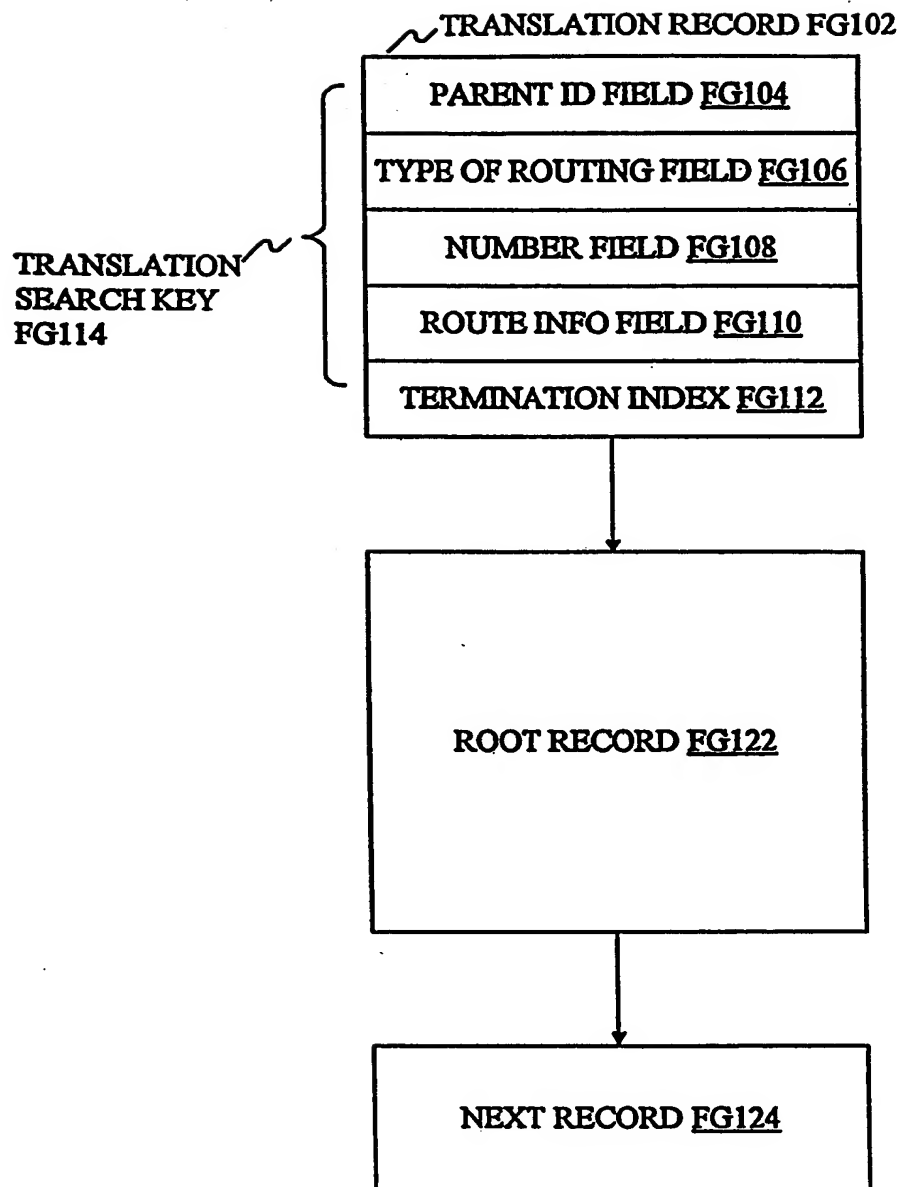


FIG 84

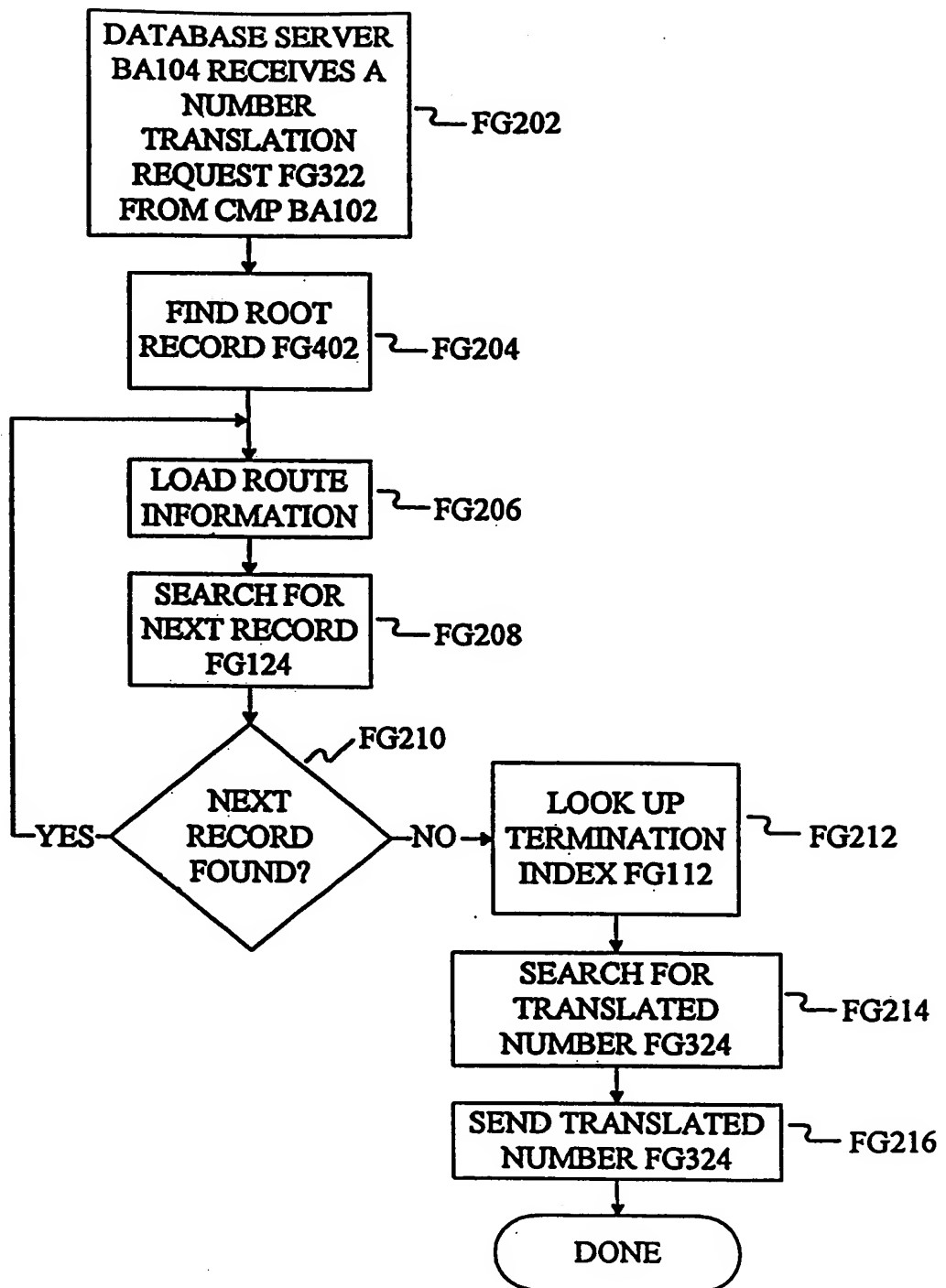


FIG 85

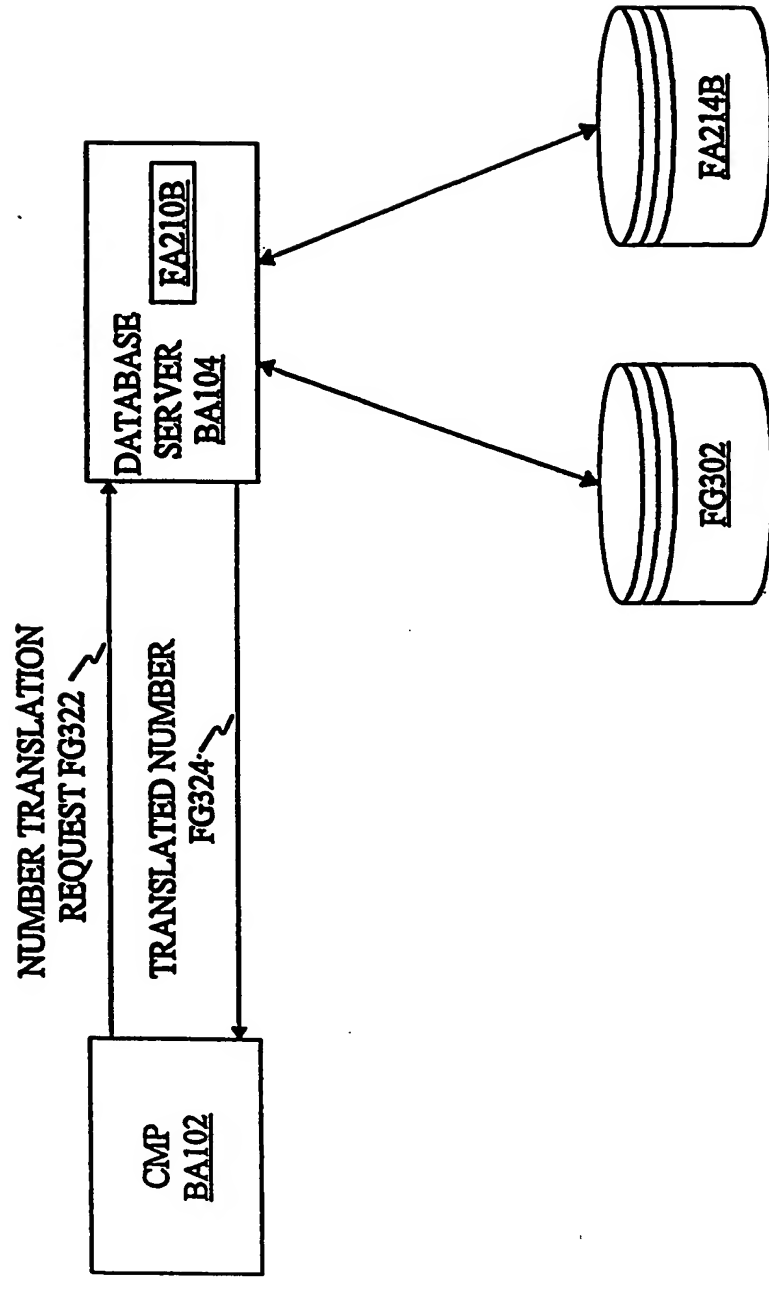


FIG 86

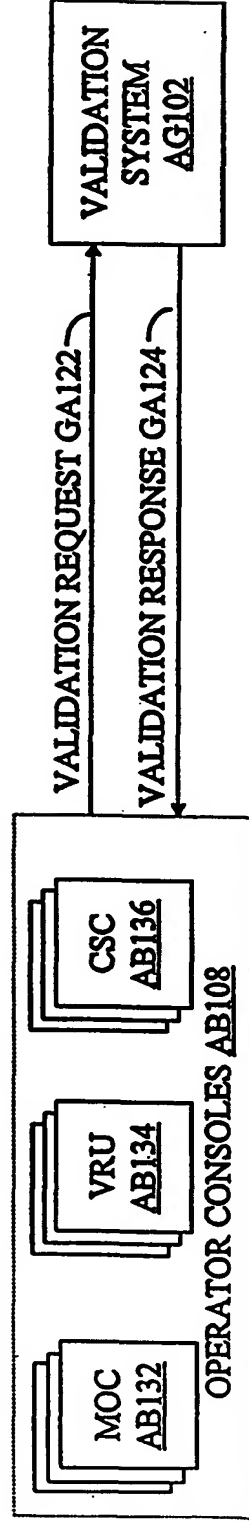


FIG 87

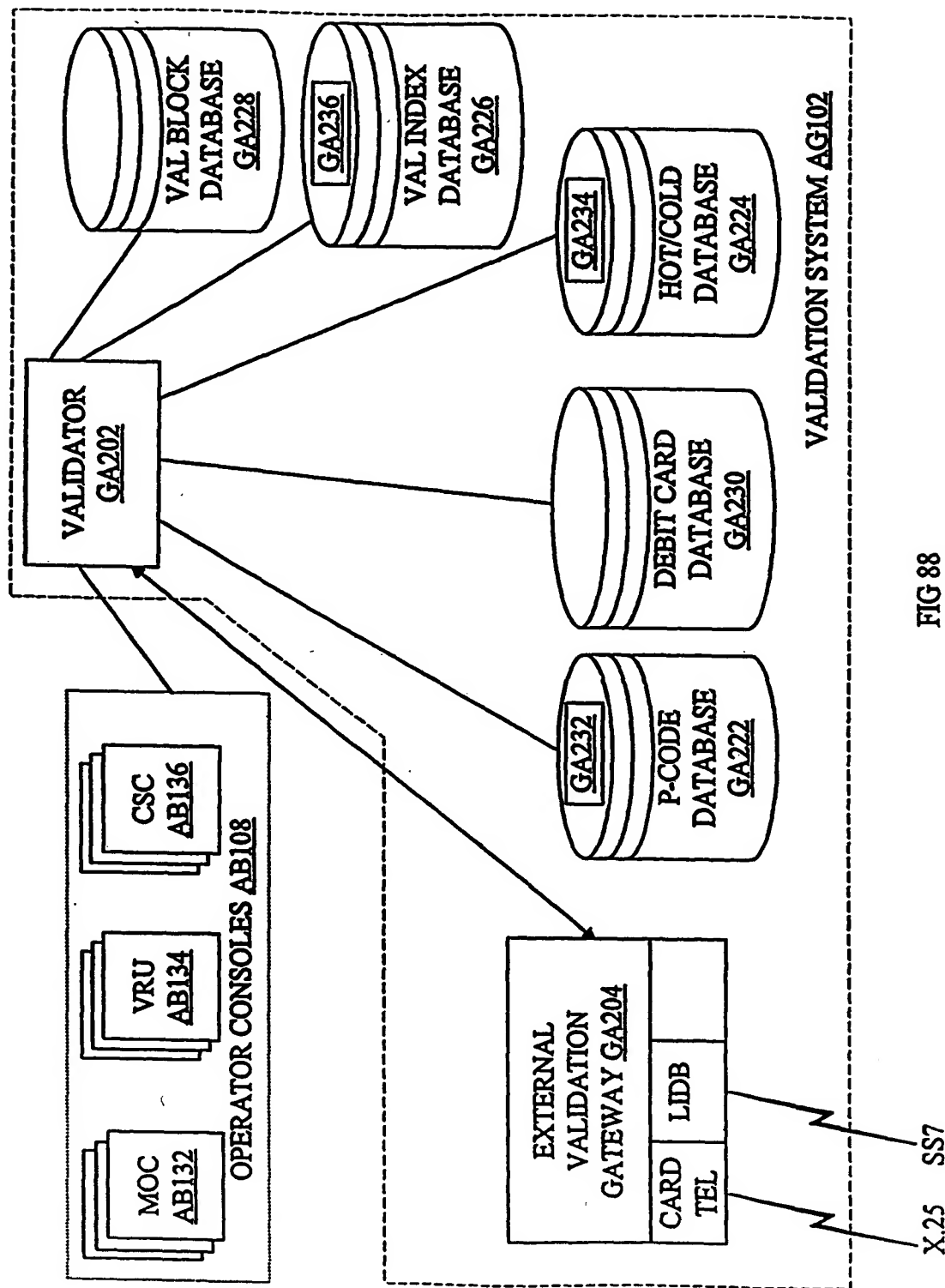


FIG 88

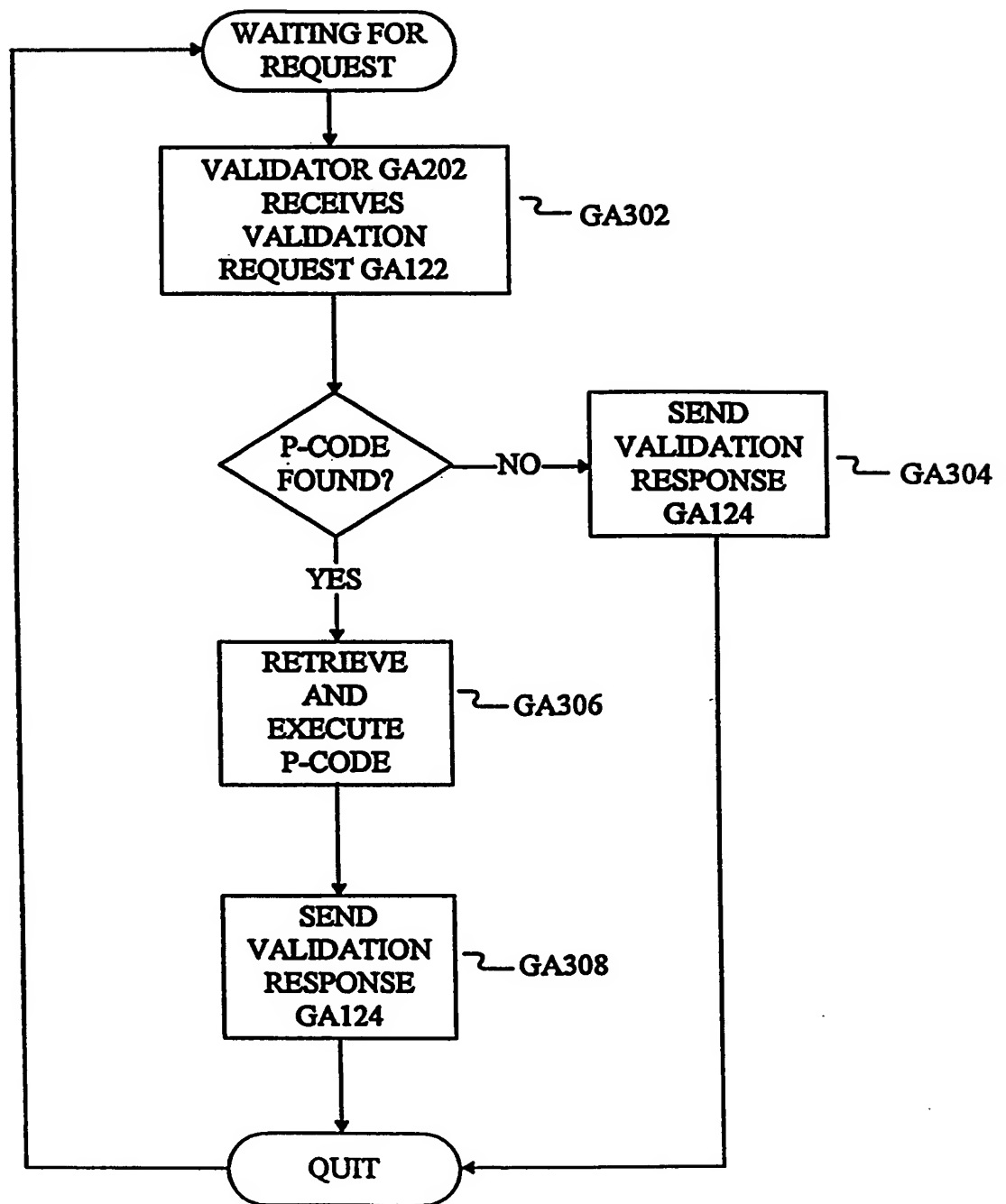


FIG 89

FIG 91

FIG 92

FIG 90

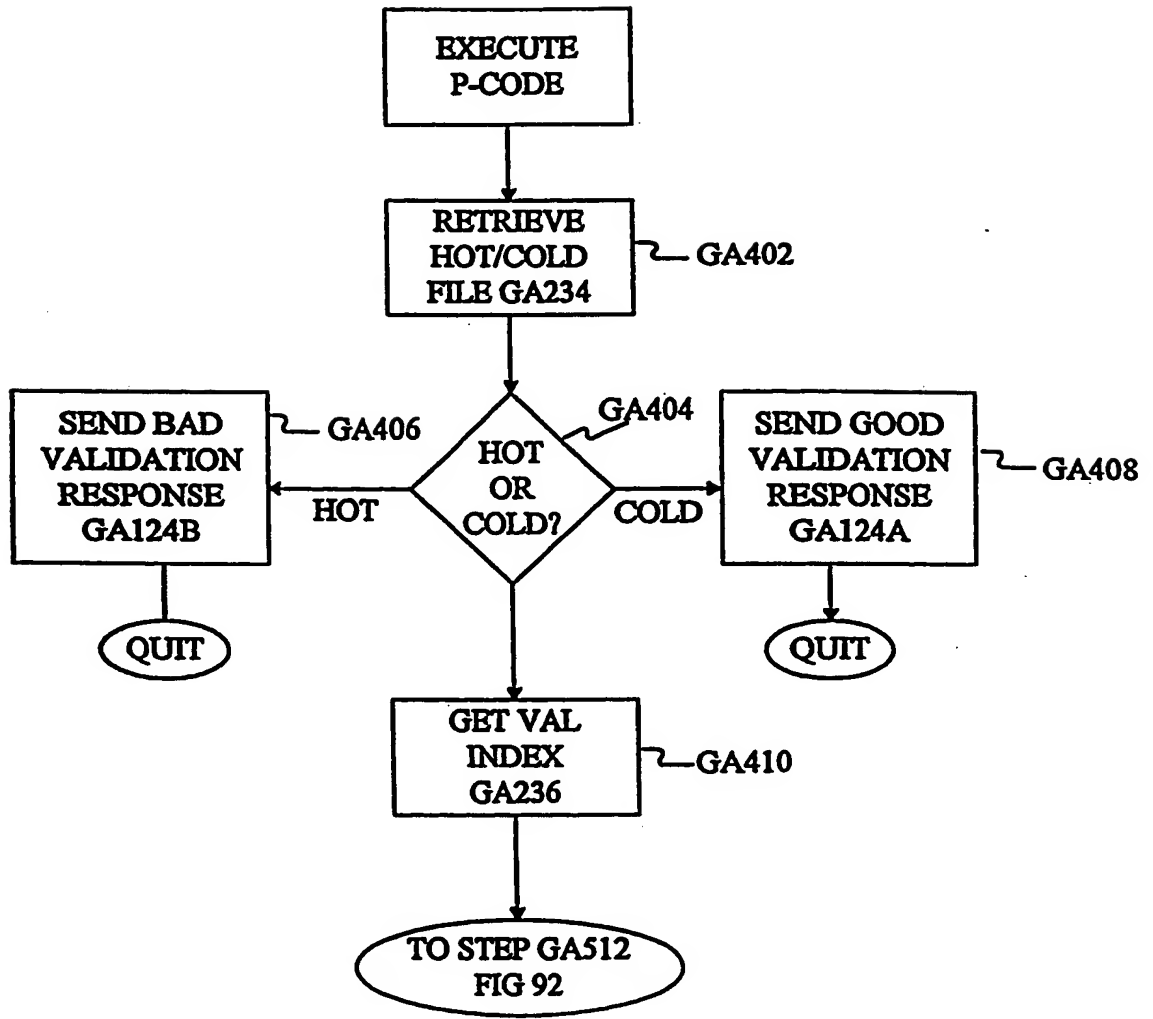


FIG 91

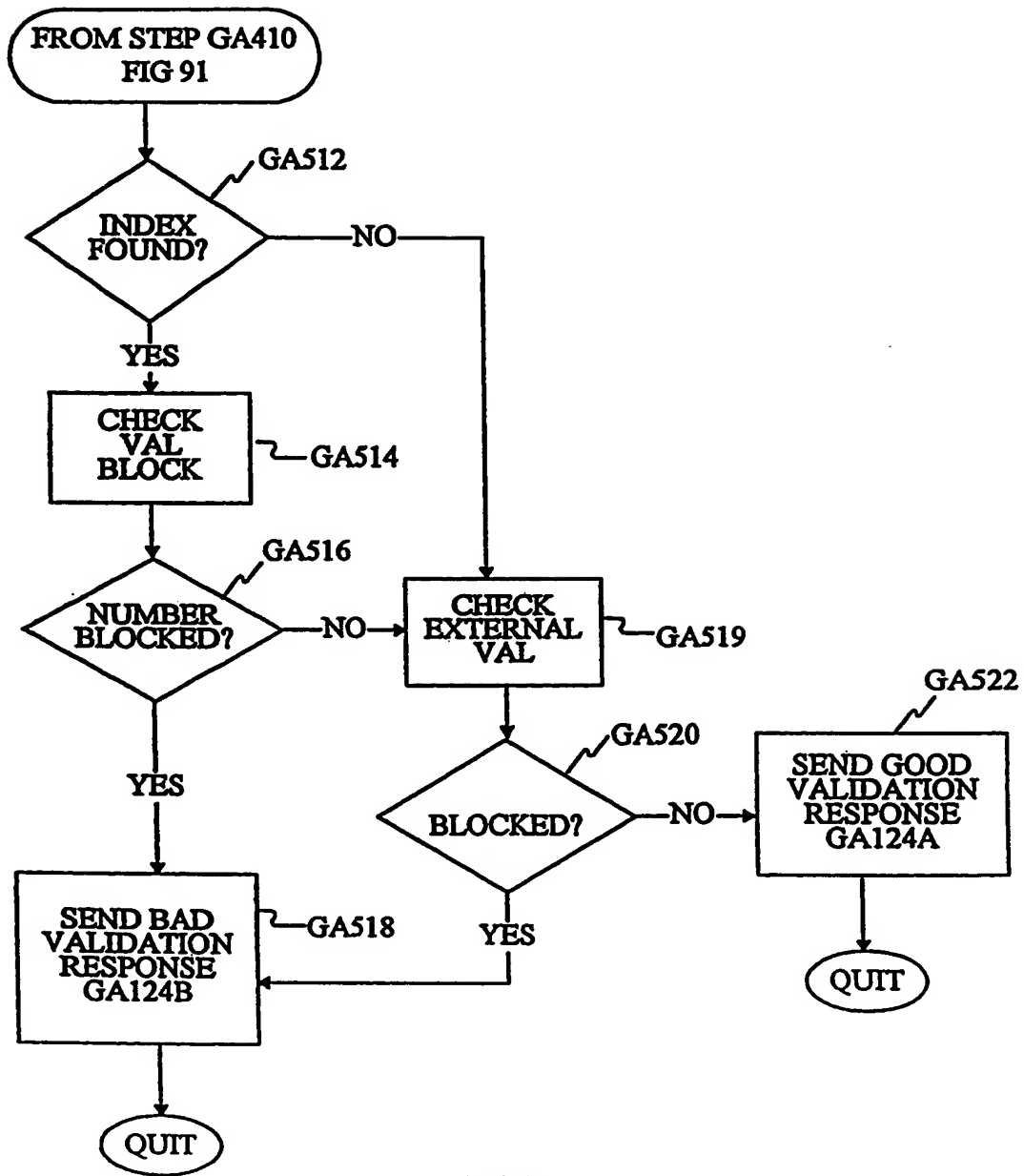


FIG 92

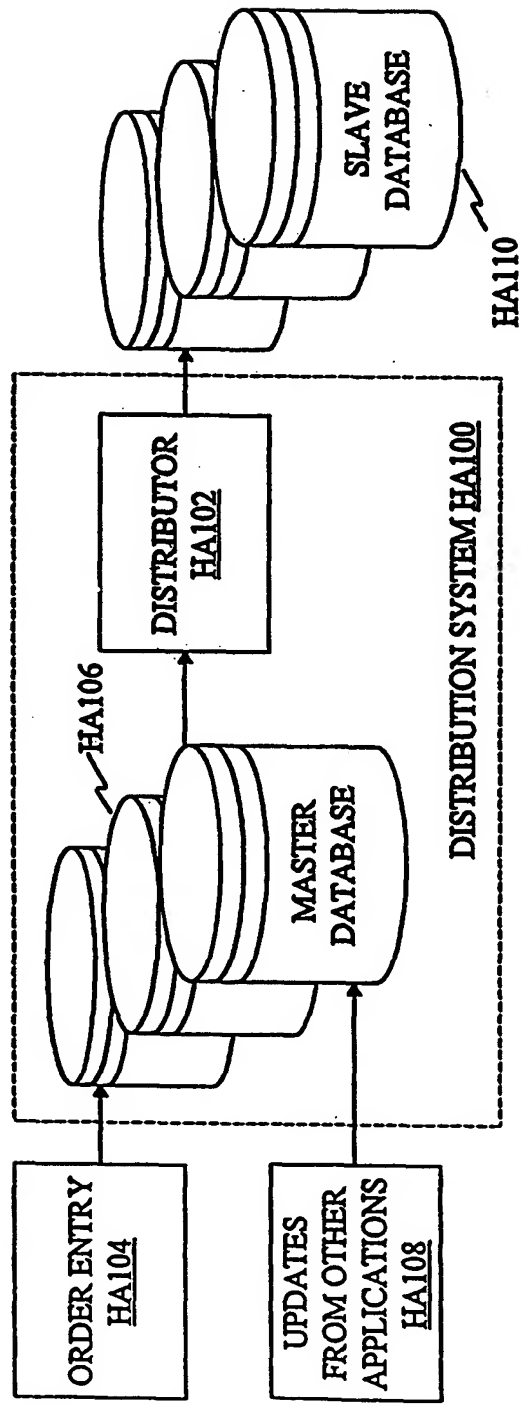


FIG 93

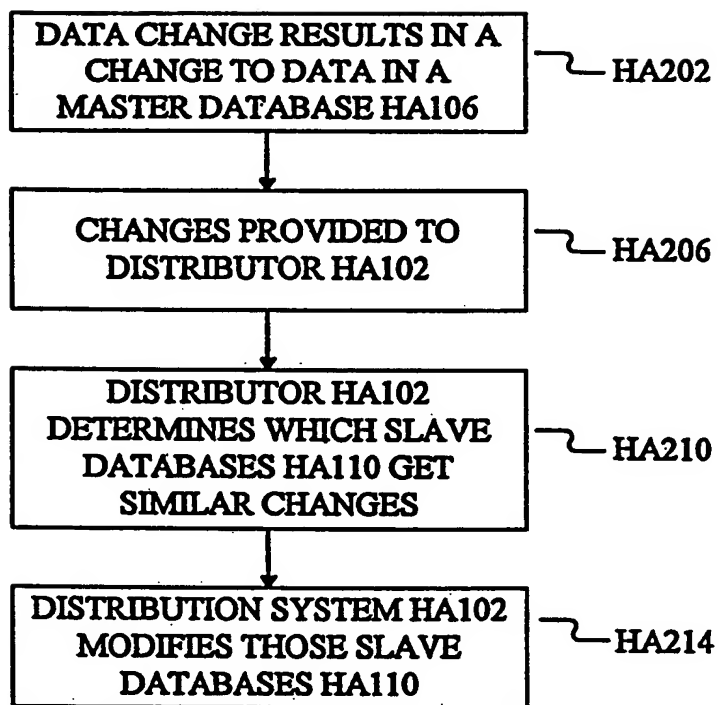


FIG 94

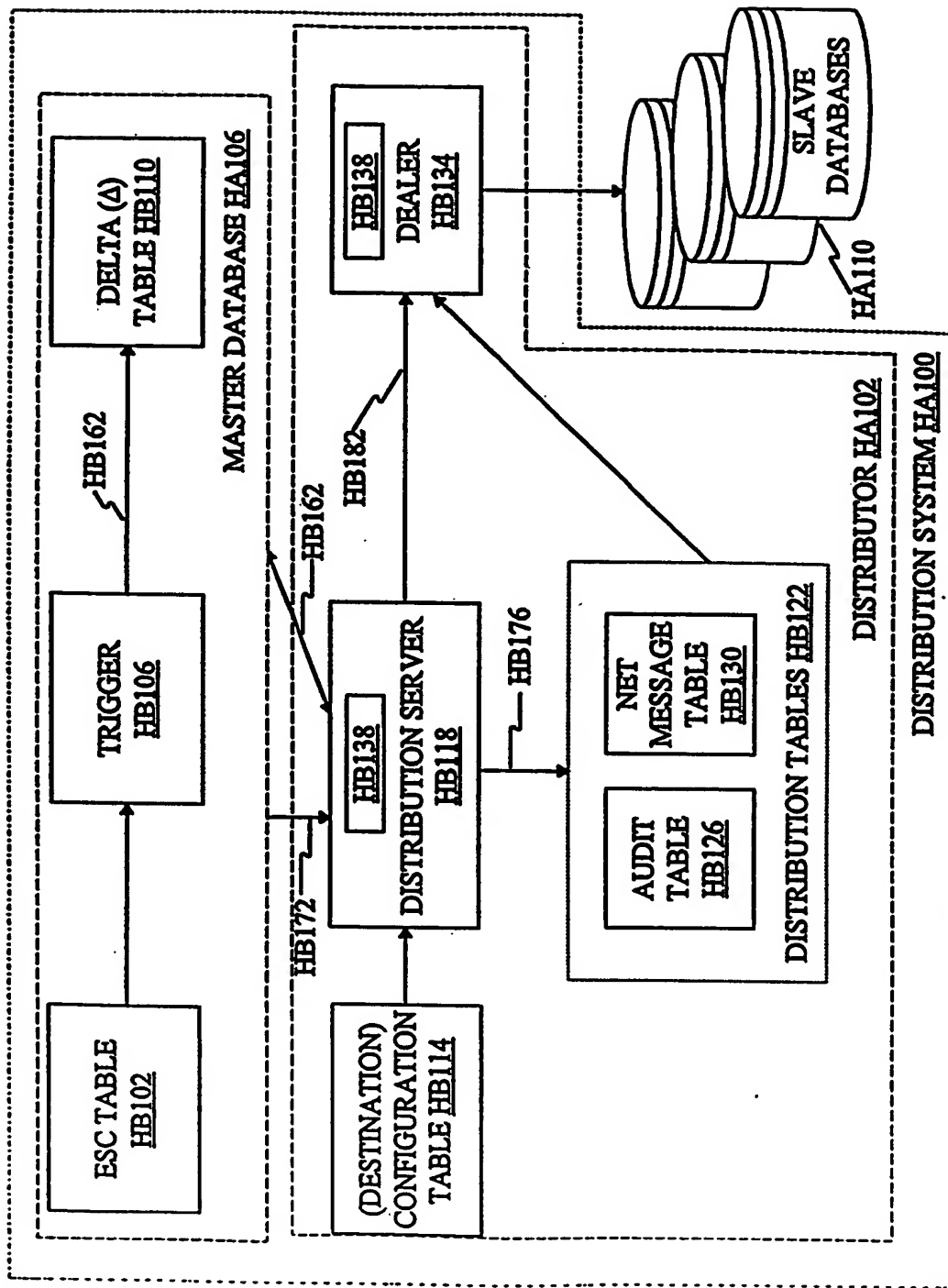


FIG 95

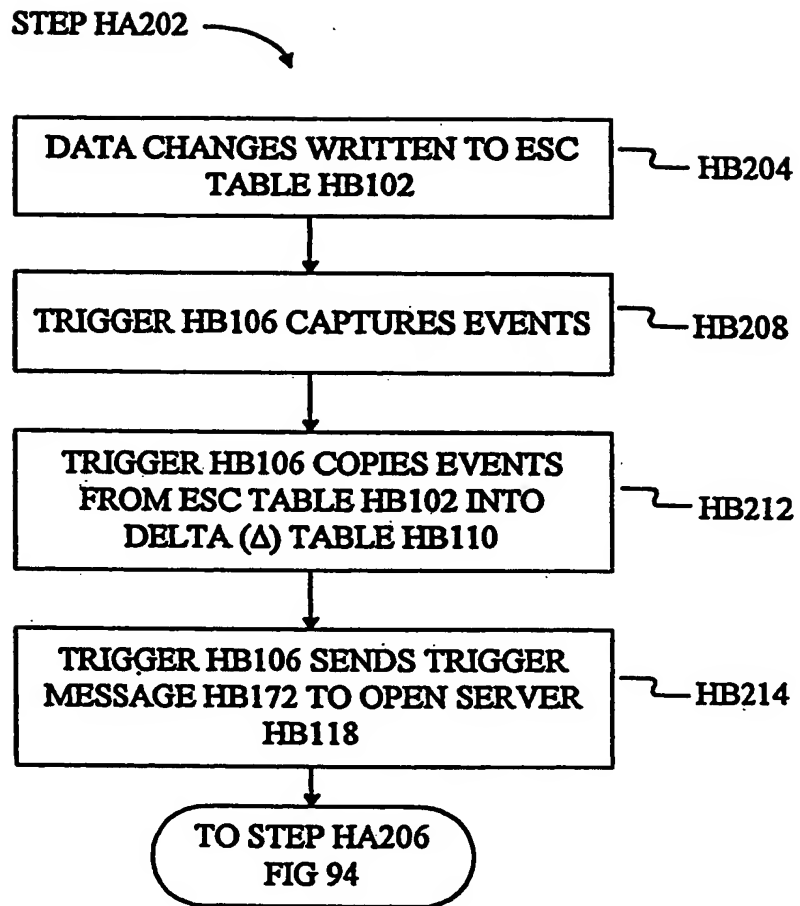


FIG 96

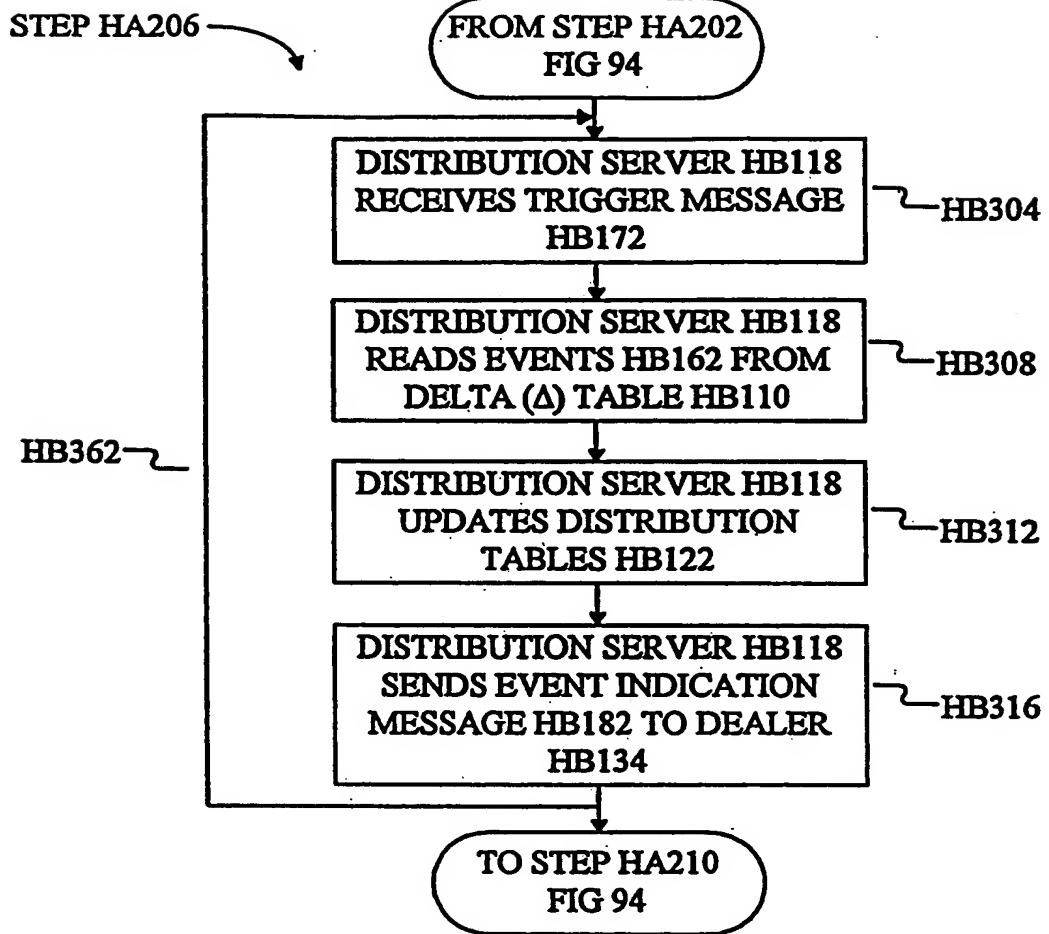


FIG 97

AUDIT TABLE HB126 

SERVICE # <u>HC104</u>	SERVER NAME <u>HC108</u>	POINTER <u>HC112</u>	ACTION <u>HC116</u>	UPDATE FLAG <u>HC120</u>
SERVICE # <u>HC104</u>	SERVER NAME <u>HC108</u>	POINTER <u>HC112</u>	ACTION <u>HC116</u>	UPDATE FLAG <u>HC120</u>
SERVICE # <u>HC104</u>	SERVER NAME <u>HC108</u>	POINTER <u>HC112</u>	ACTION <u>HC116</u>	UPDATE FLAG <u>HC120</u>

FIG 98

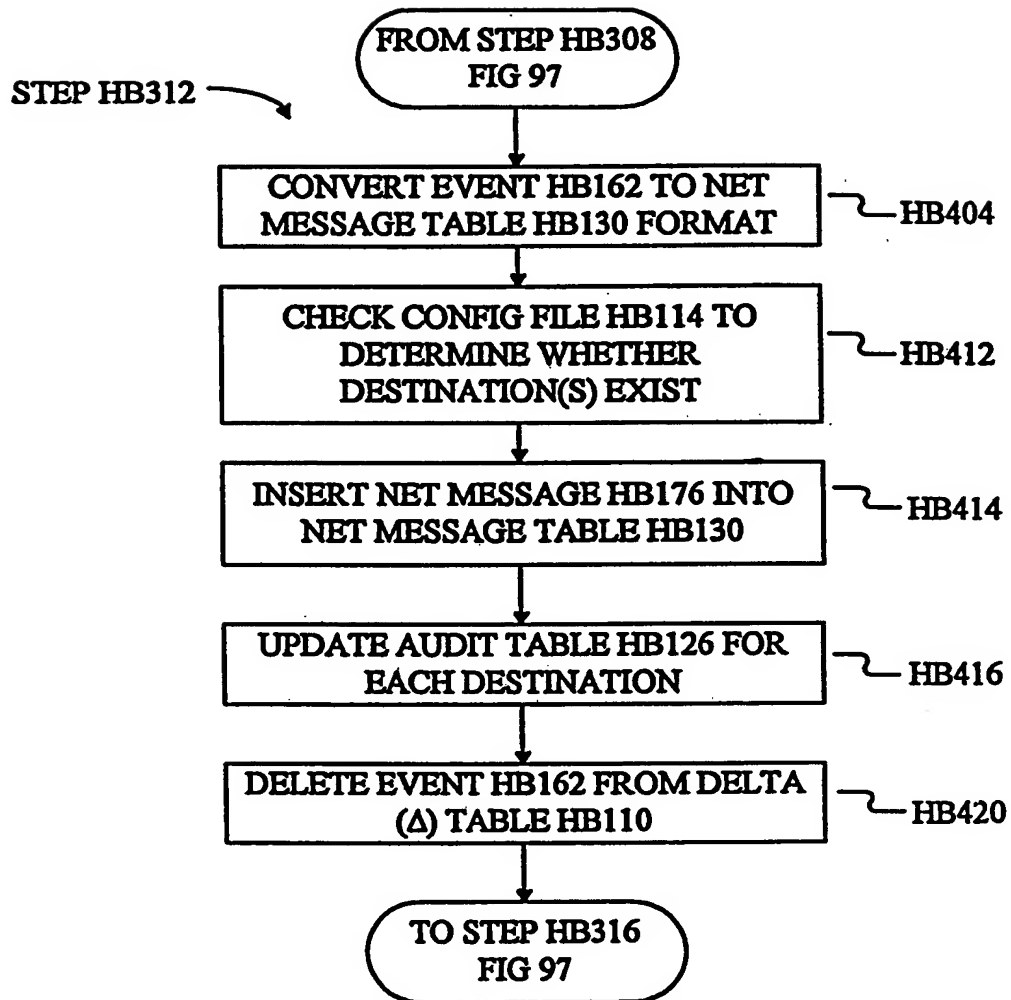


FIG 99

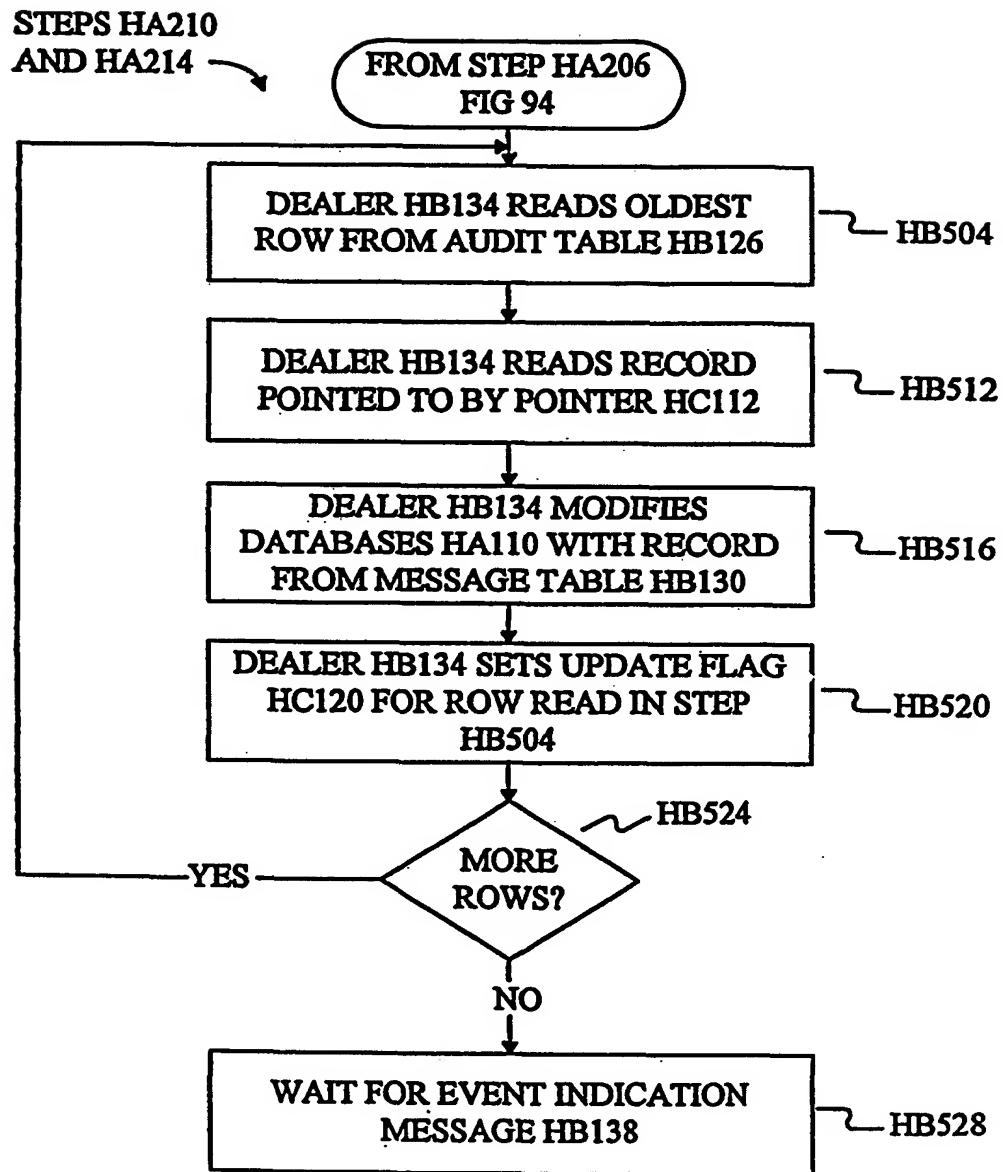


FIG 100

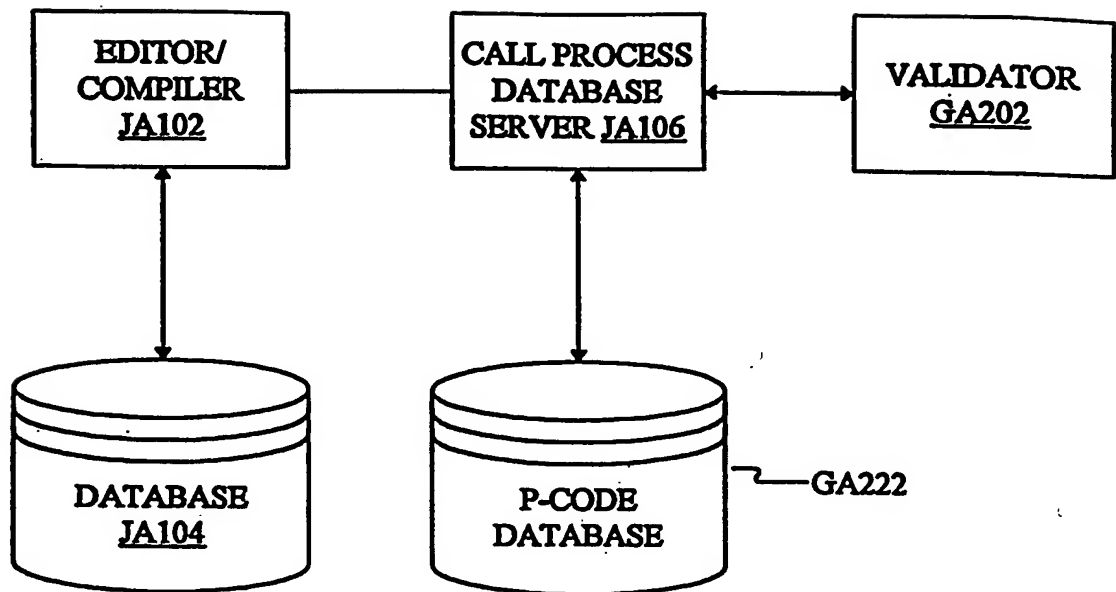


FIG 101

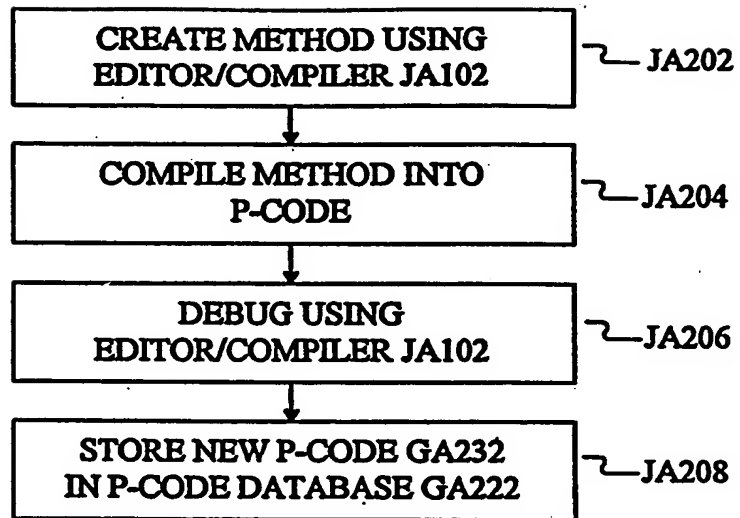


FIG 102

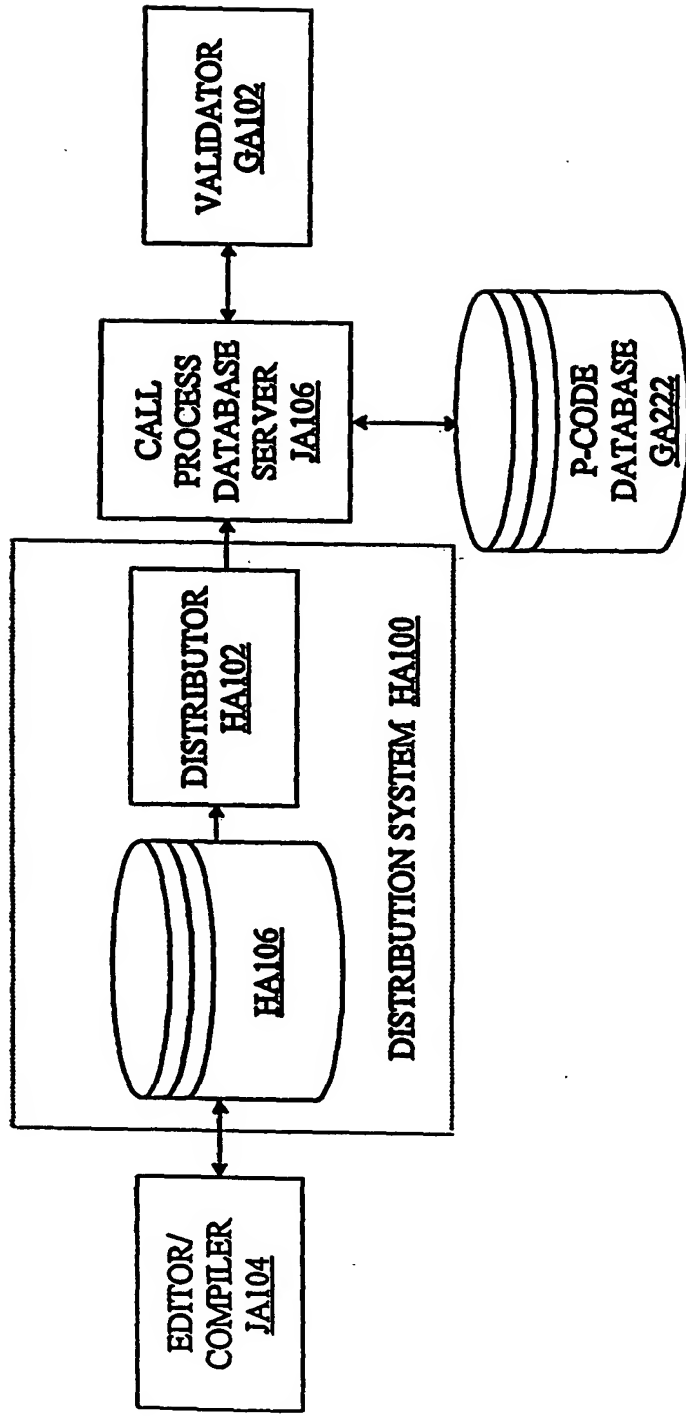


FIG 103

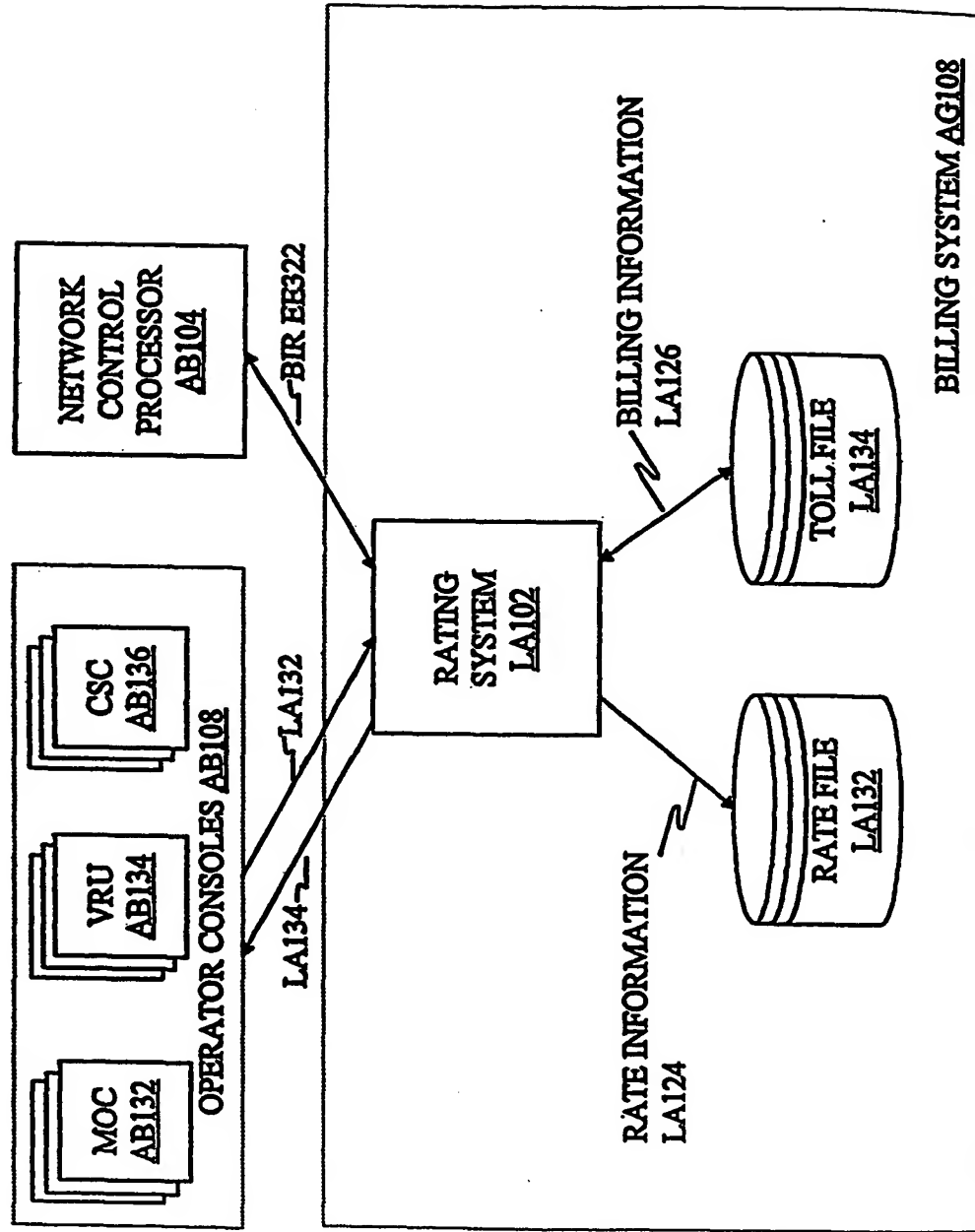


FIG 104

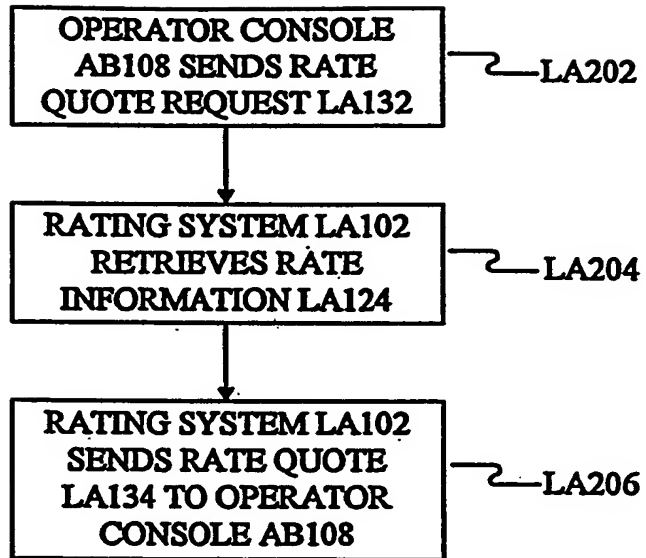


FIG 105

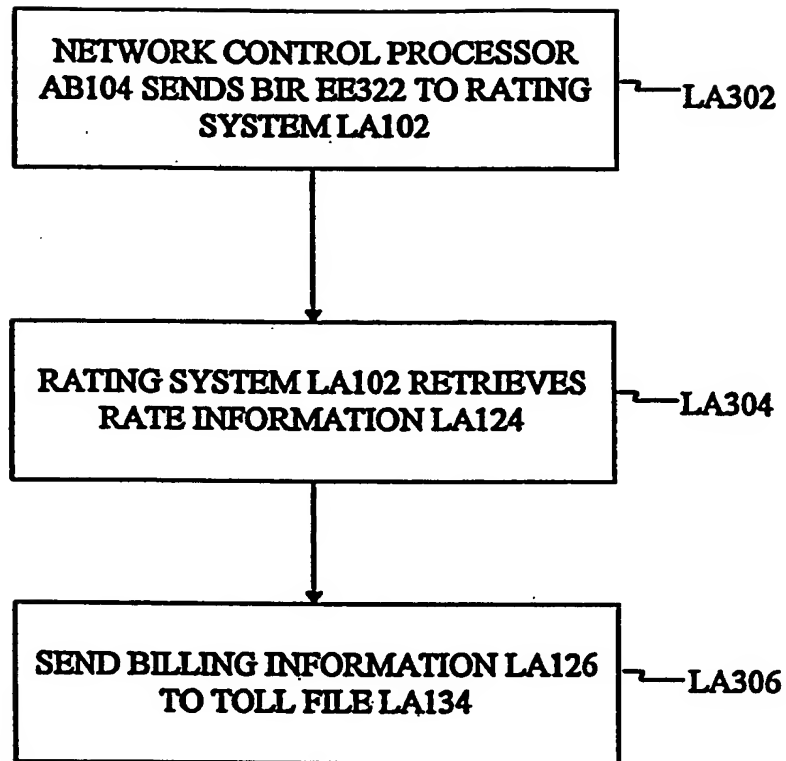


FIG 106

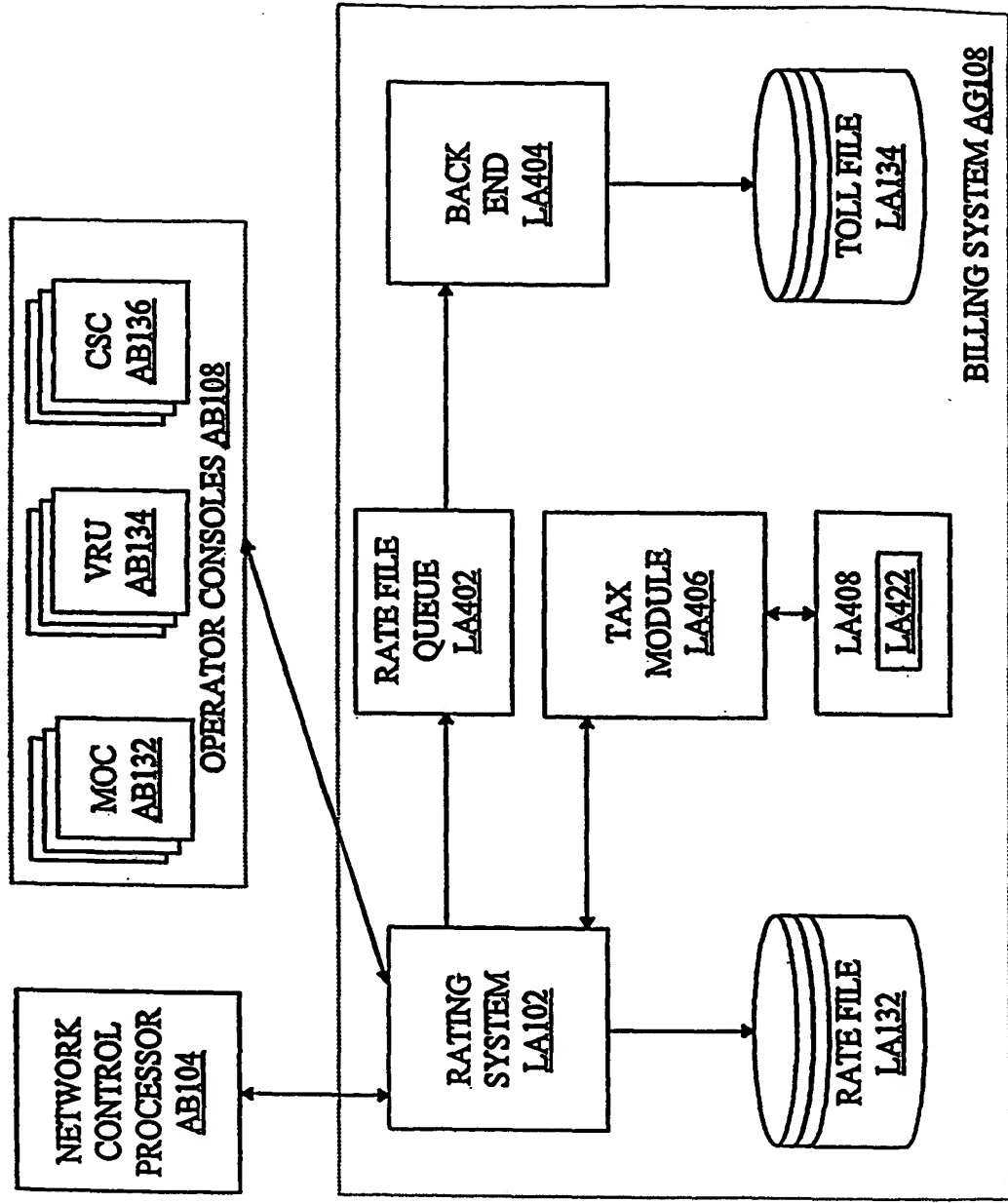


FIG 107

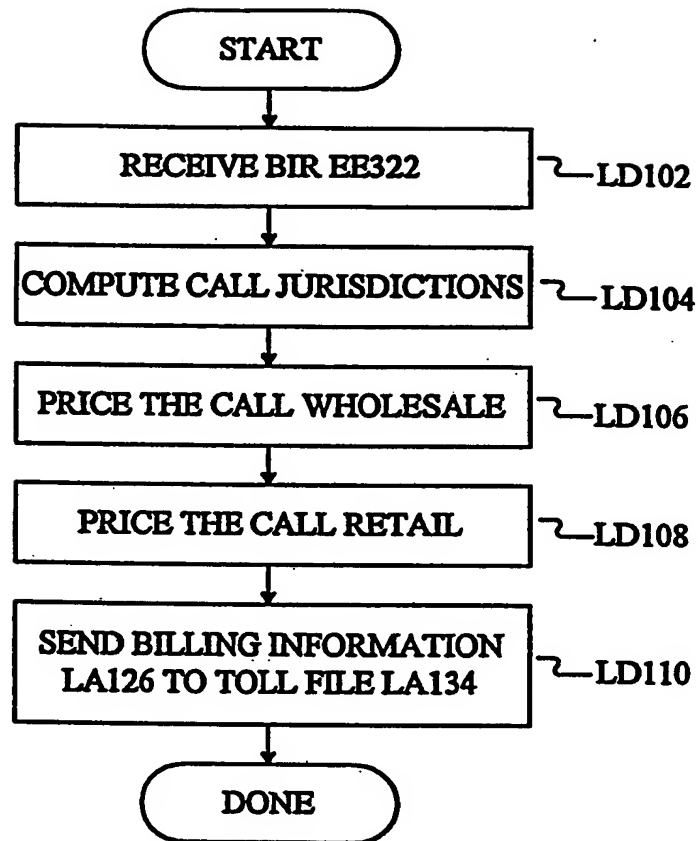


FIG 108

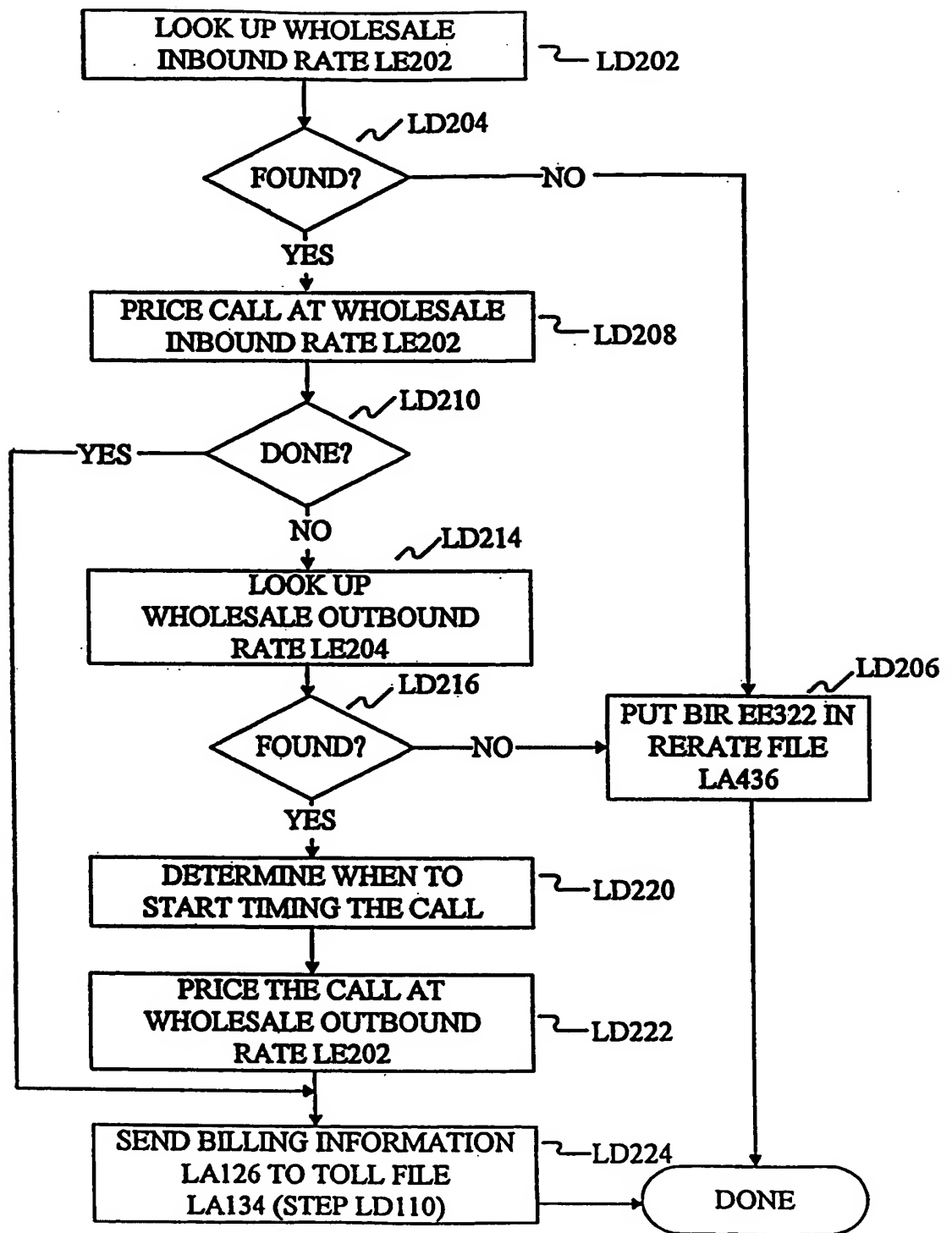


FIG 109

WHOLESALE INBOUND RATE LE202
WHOLESALE OUTBOUND RATE LE204
RETAIL RATE LE206
TAX RATE LE208

RATE FILE LA132 

FIG 110

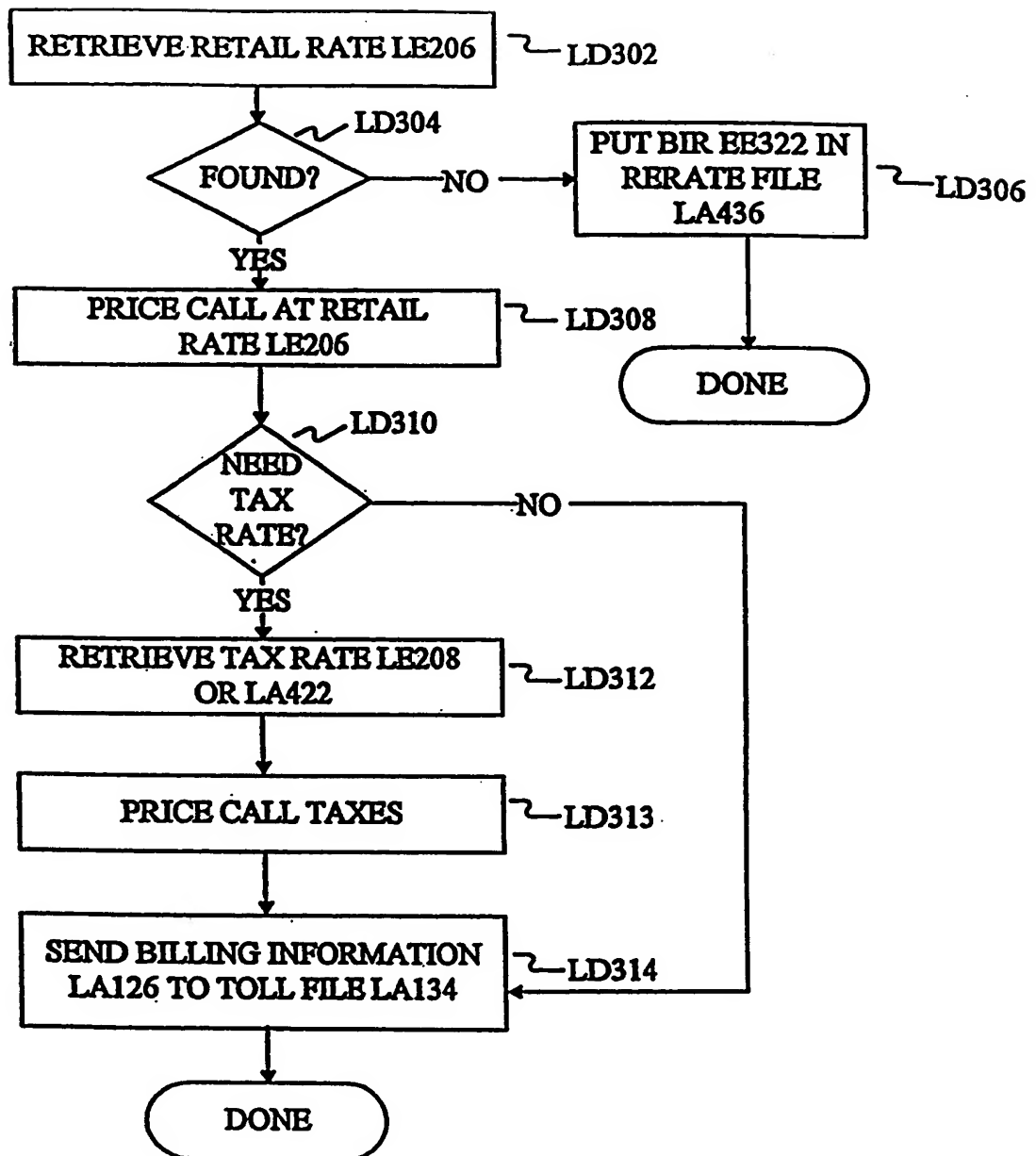


FIG 111

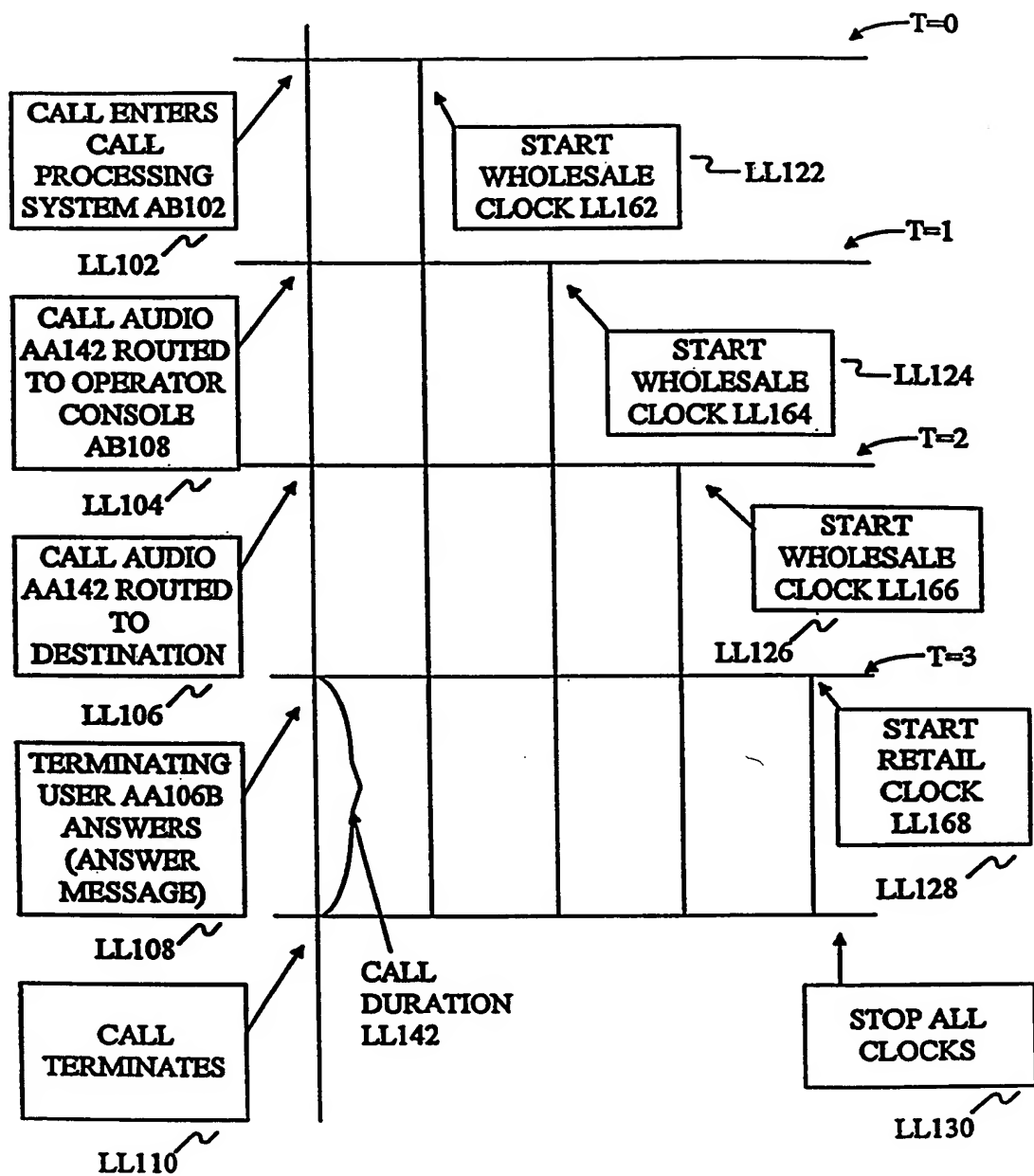


FIG 112

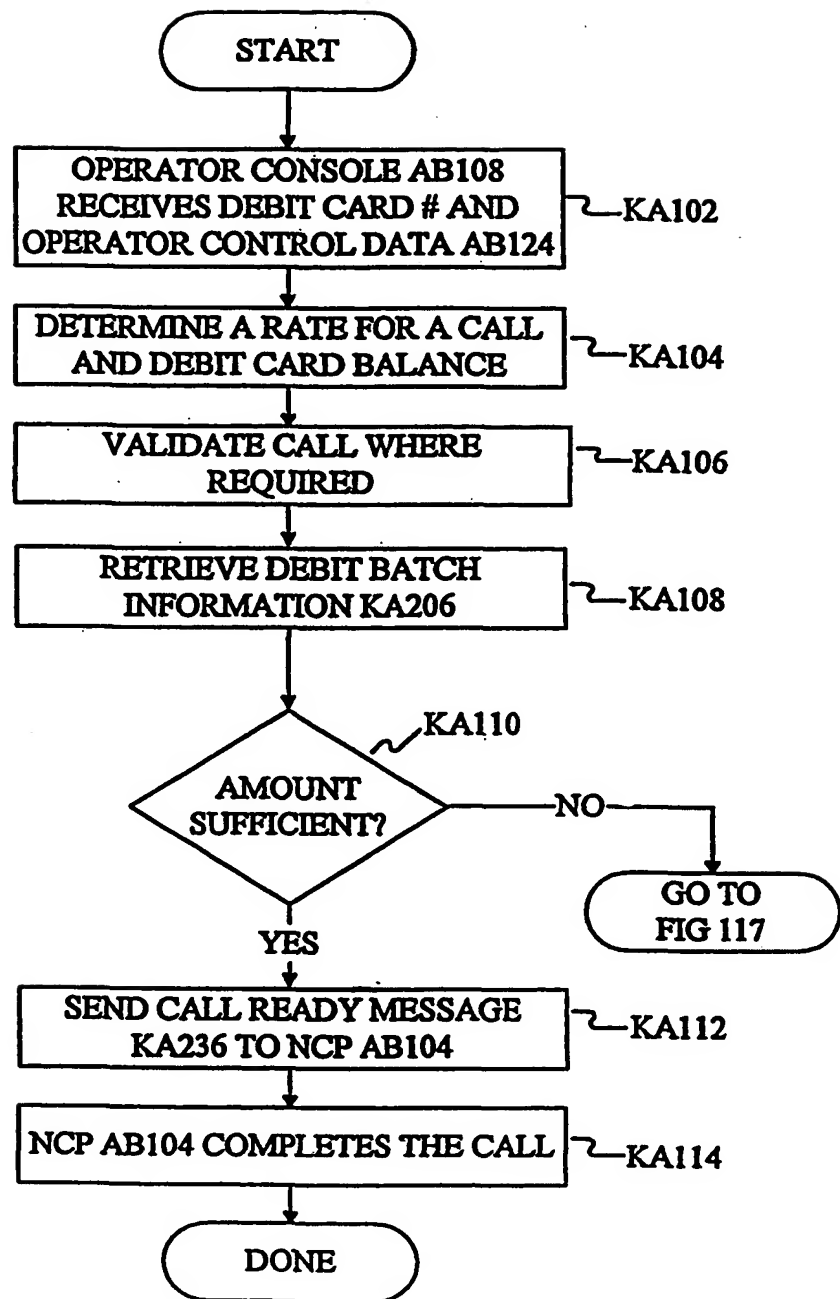


FIG 113

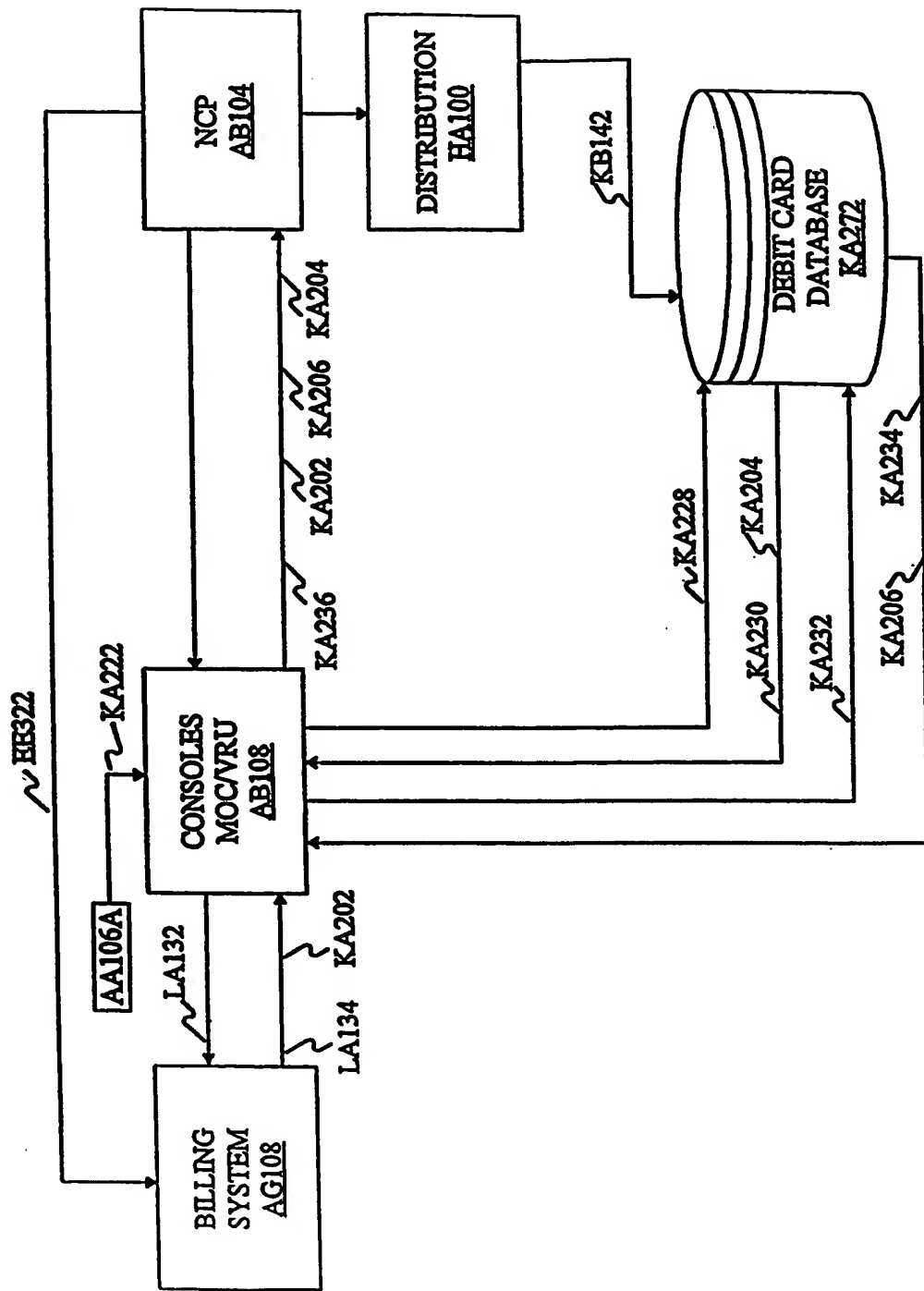


FIG 114

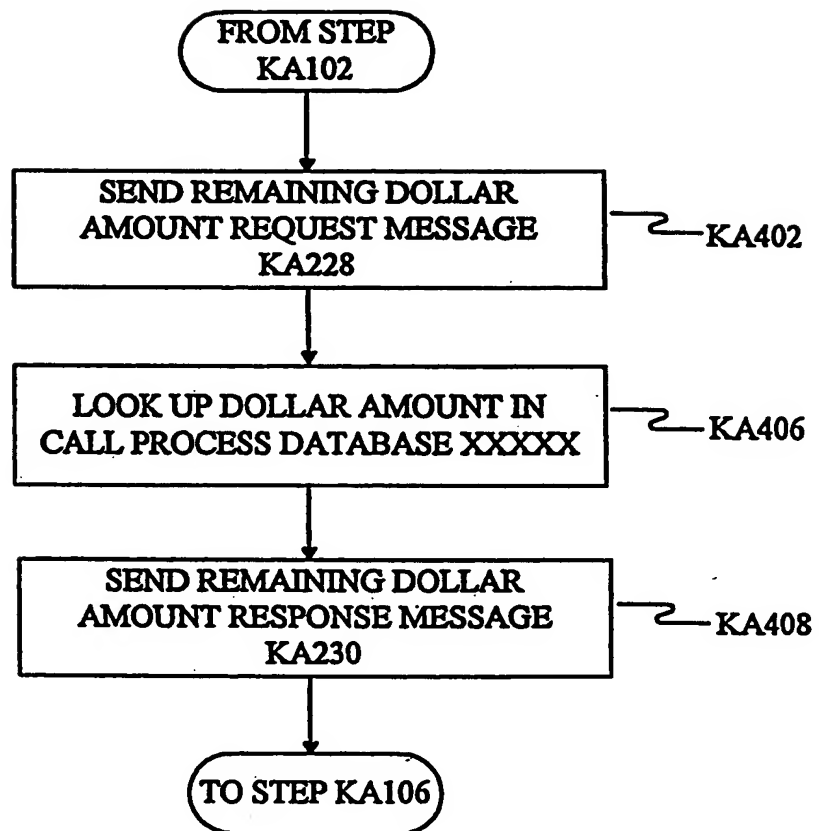


FIG 115

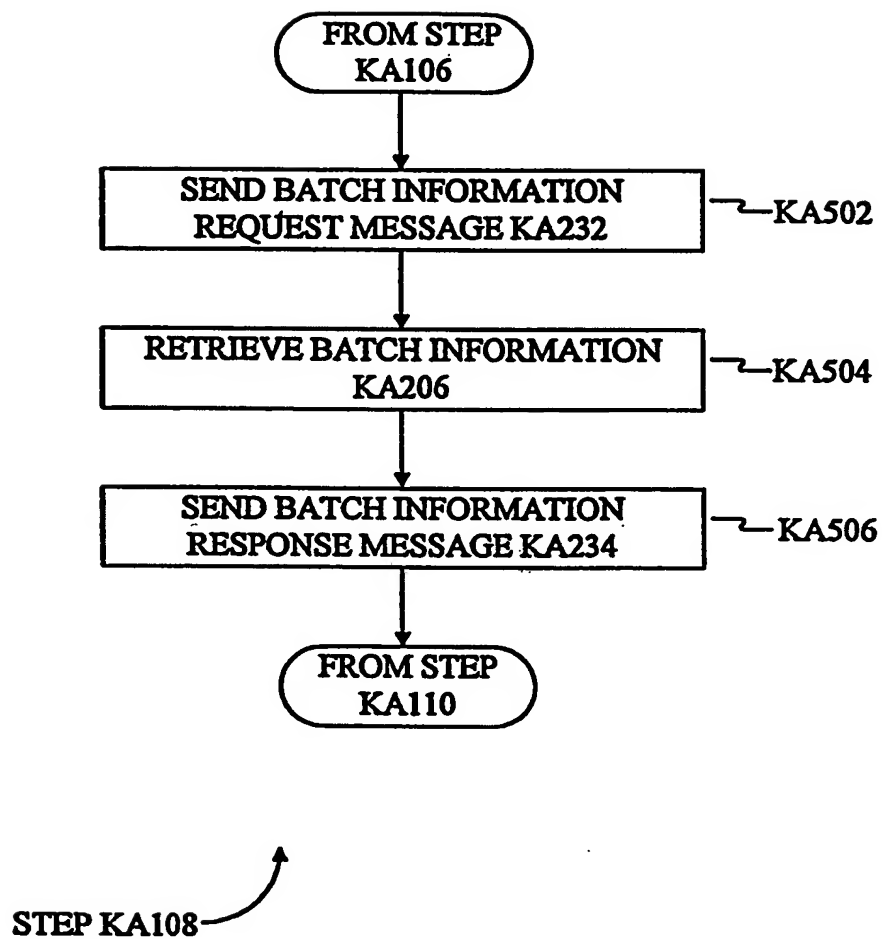


FIG 116

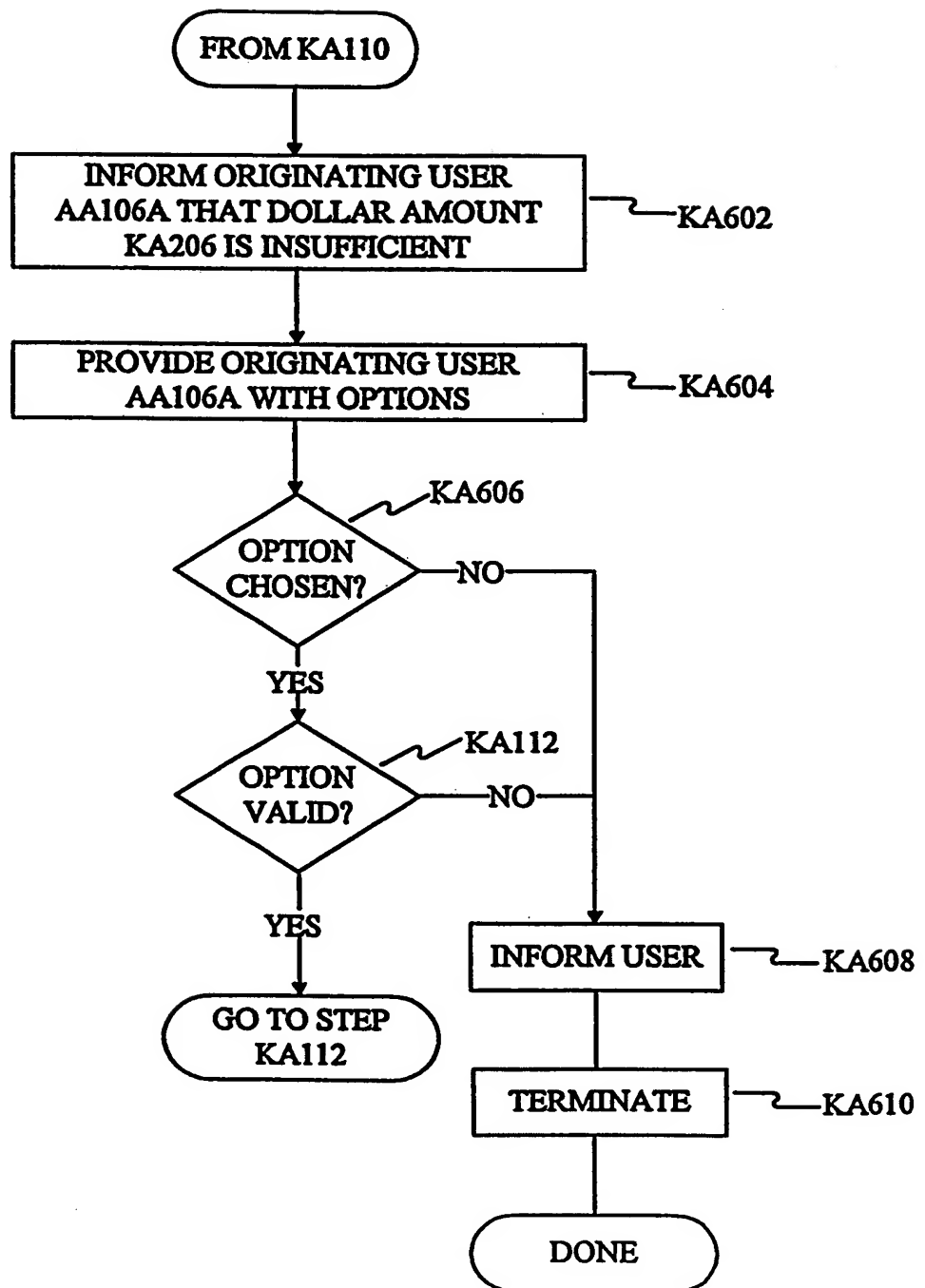


FIG 117

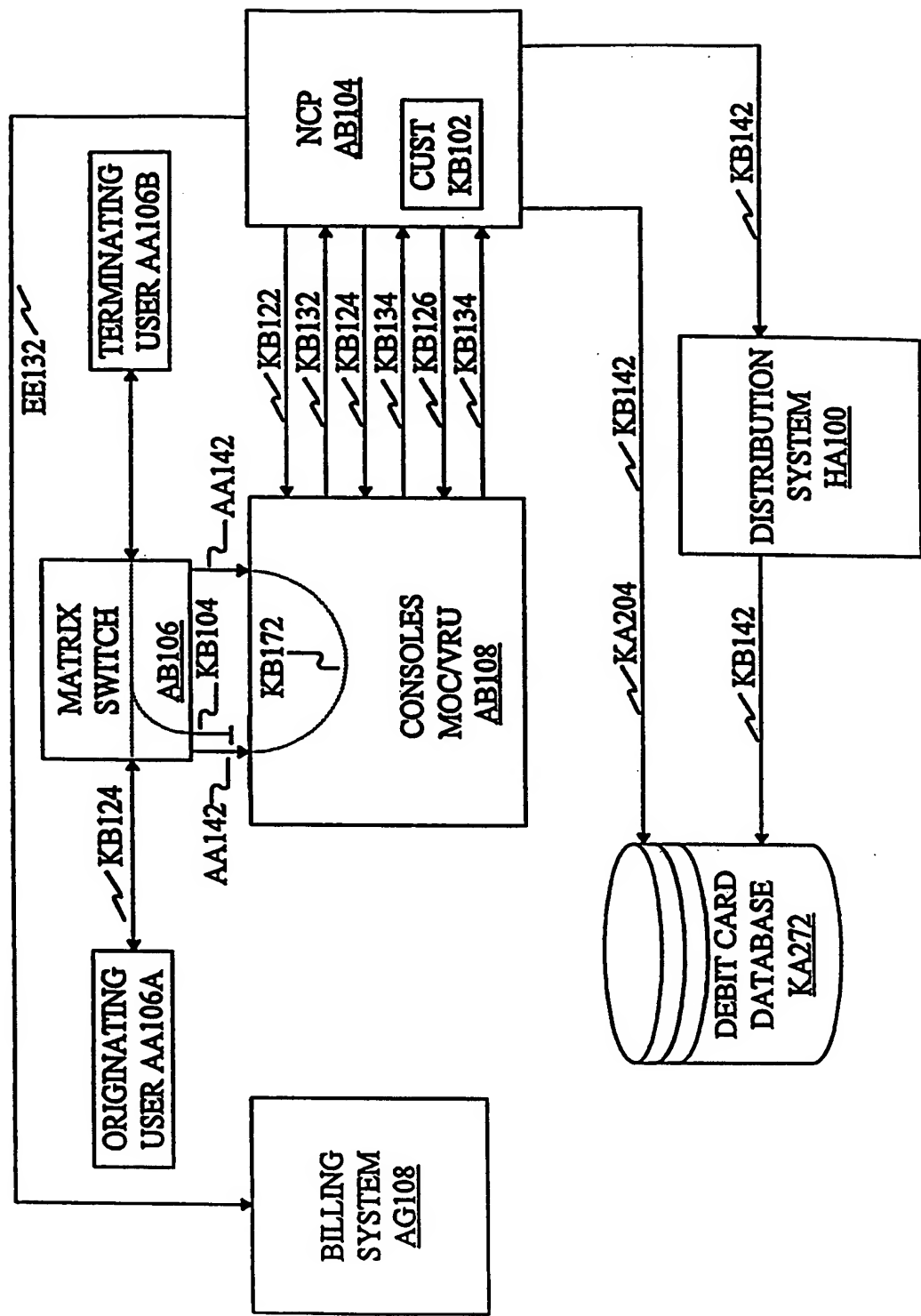


FIG 118



FIG 120

FIG 121

FIG 119

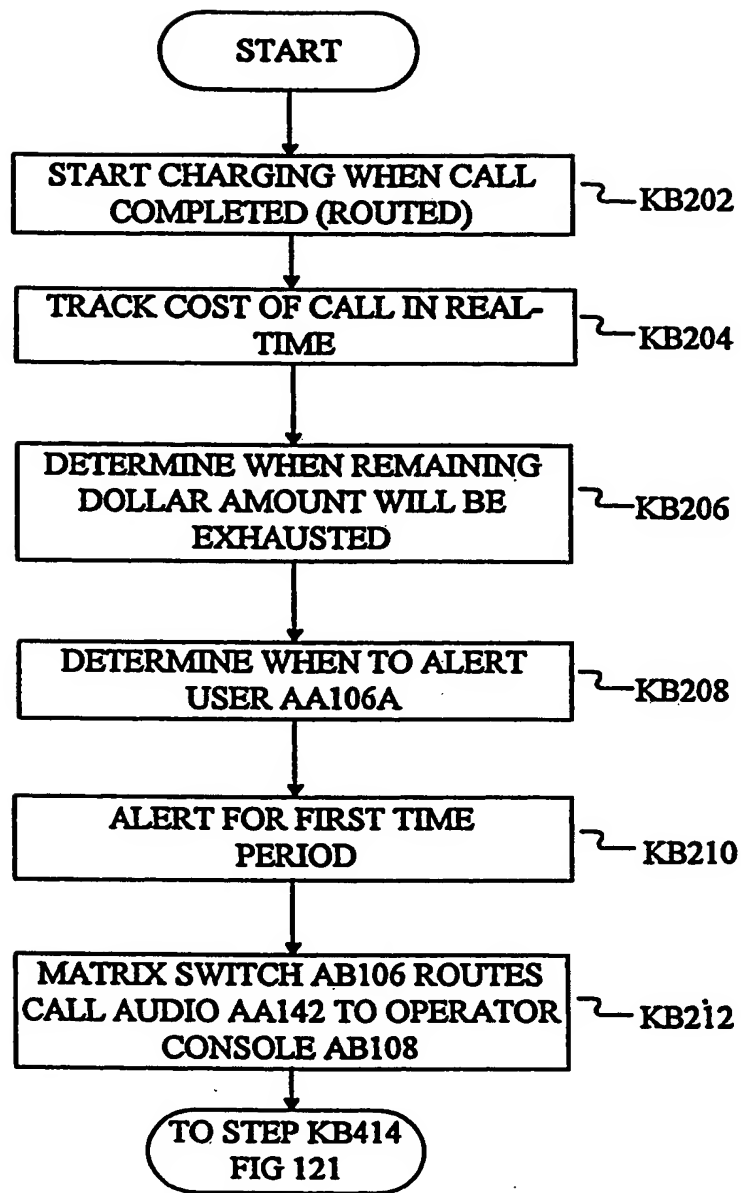


FIG 120

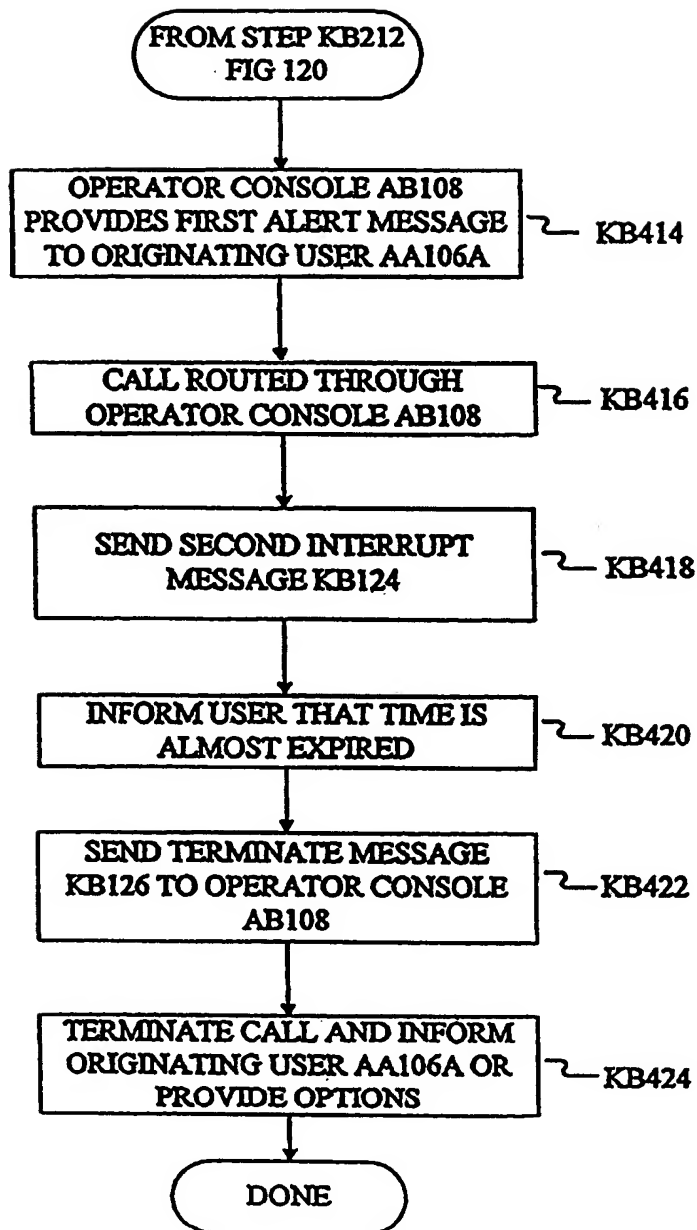


FIG 121

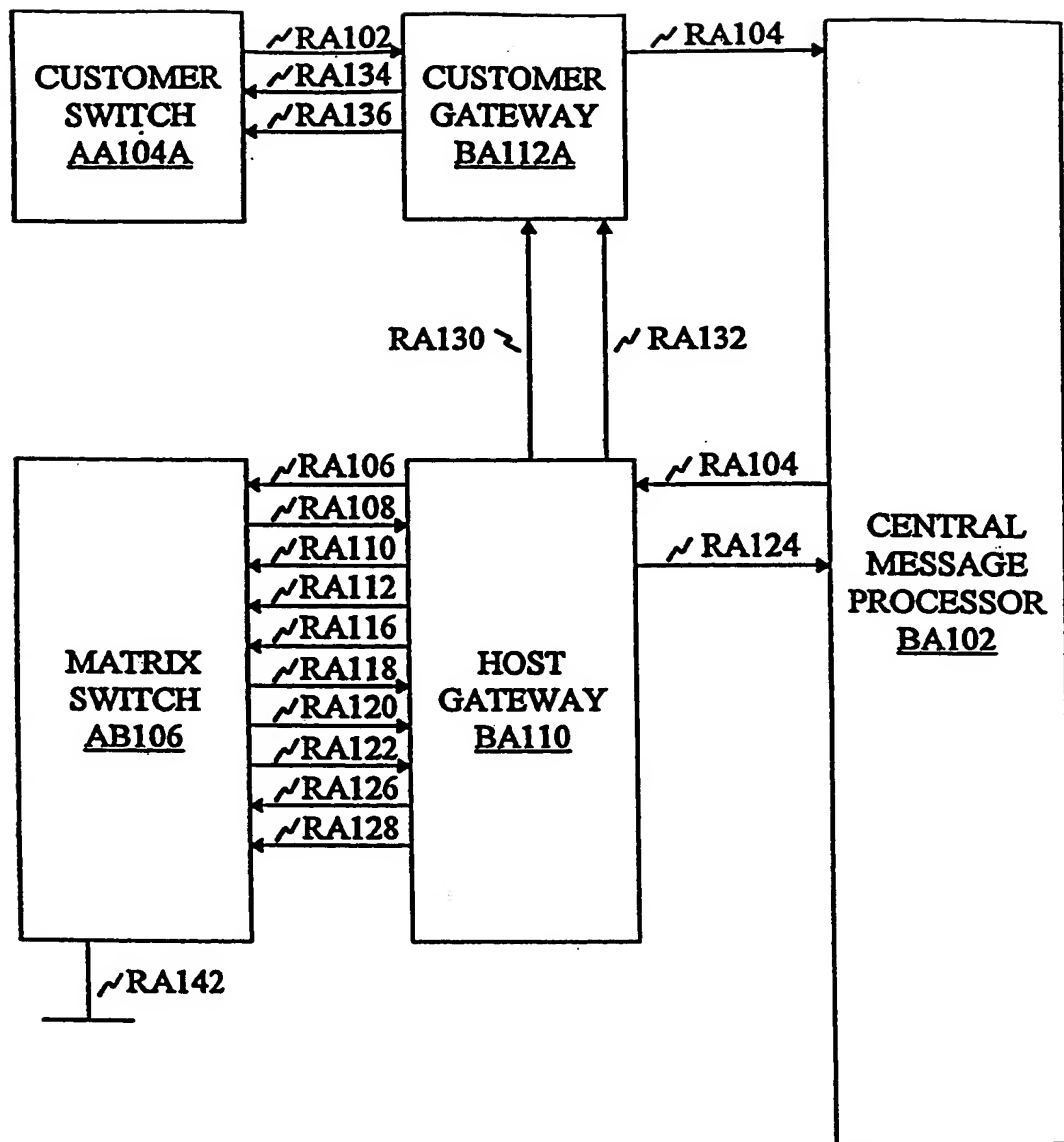


FIG 122

FIG 124	FIG 125
----------------	----------------

FIG 123

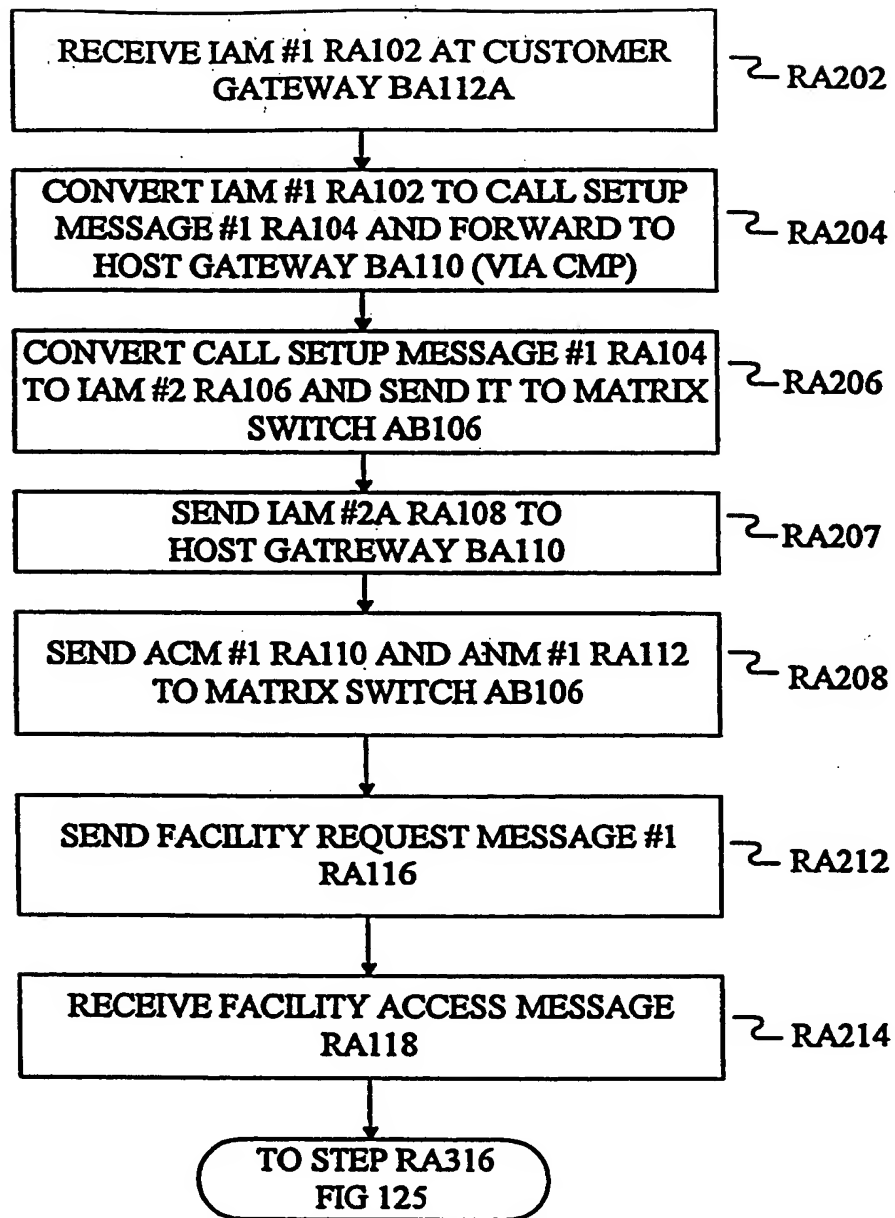


FIG 124

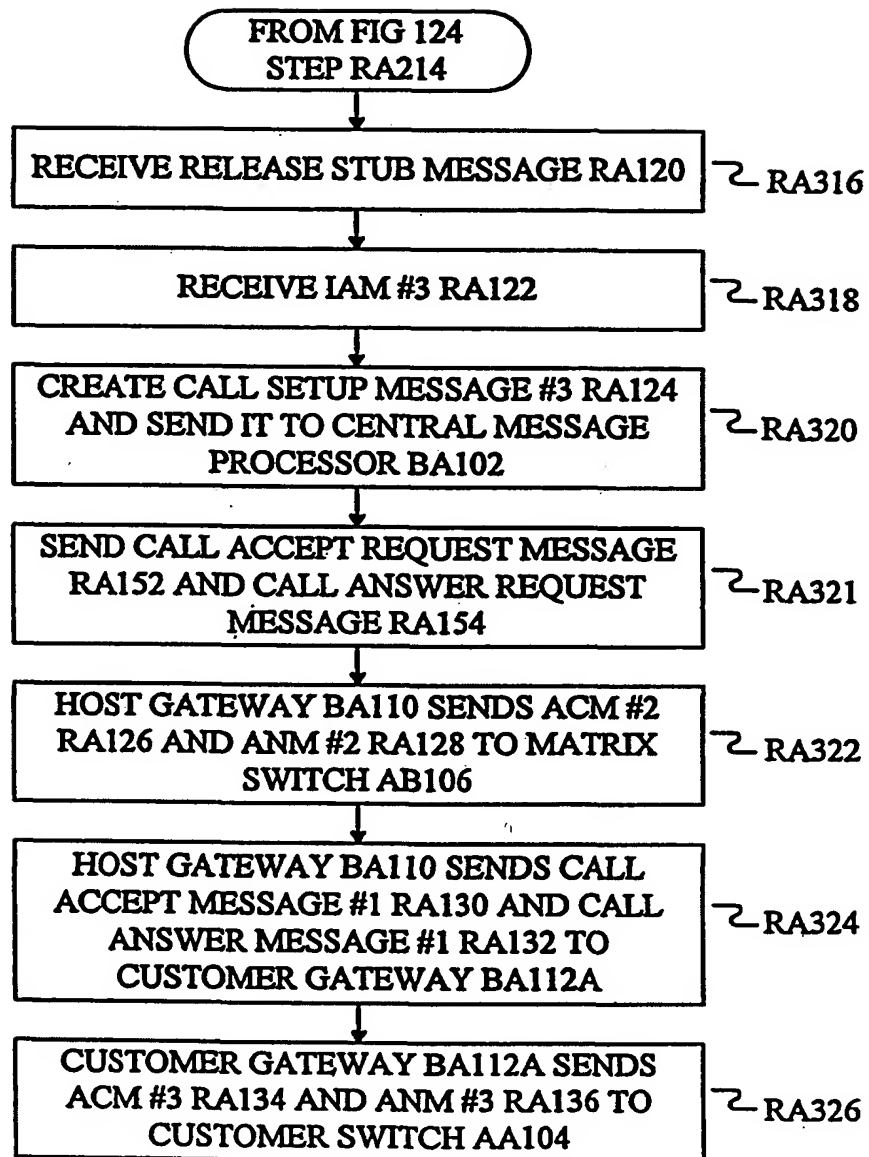


FIG 125

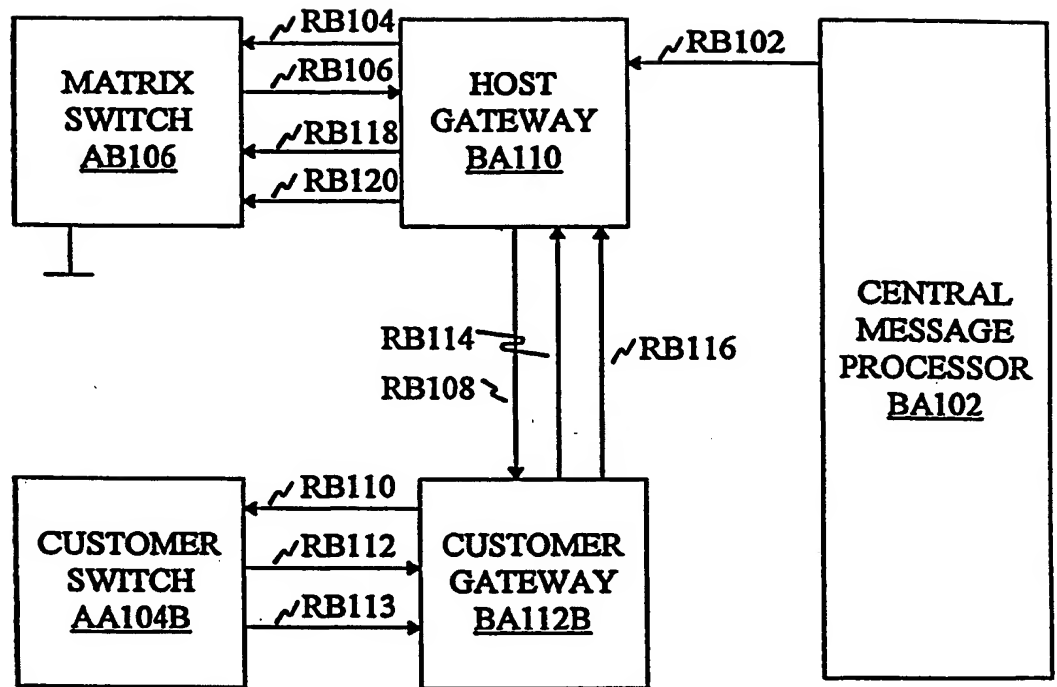


FIG 126

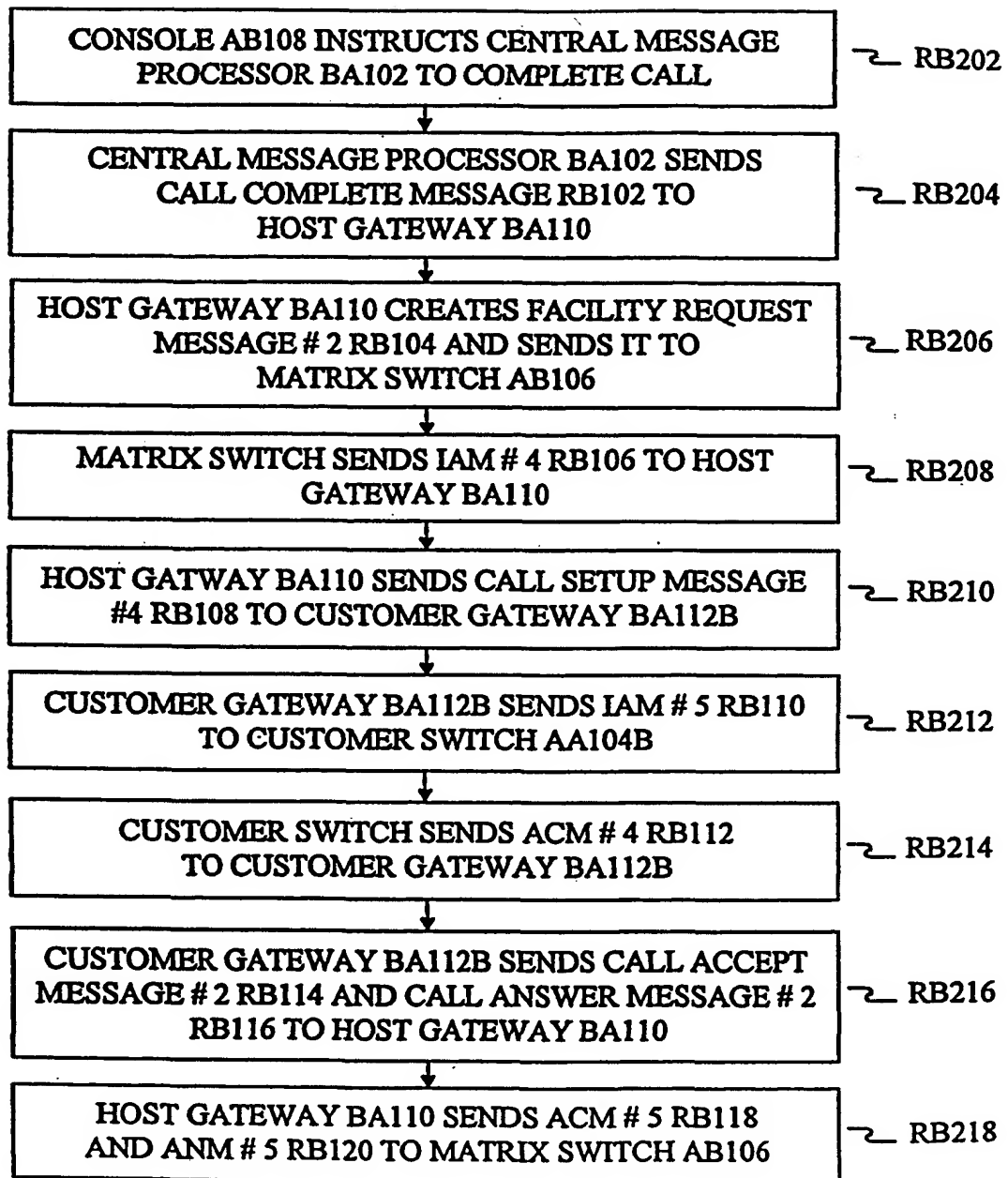


FIG 127

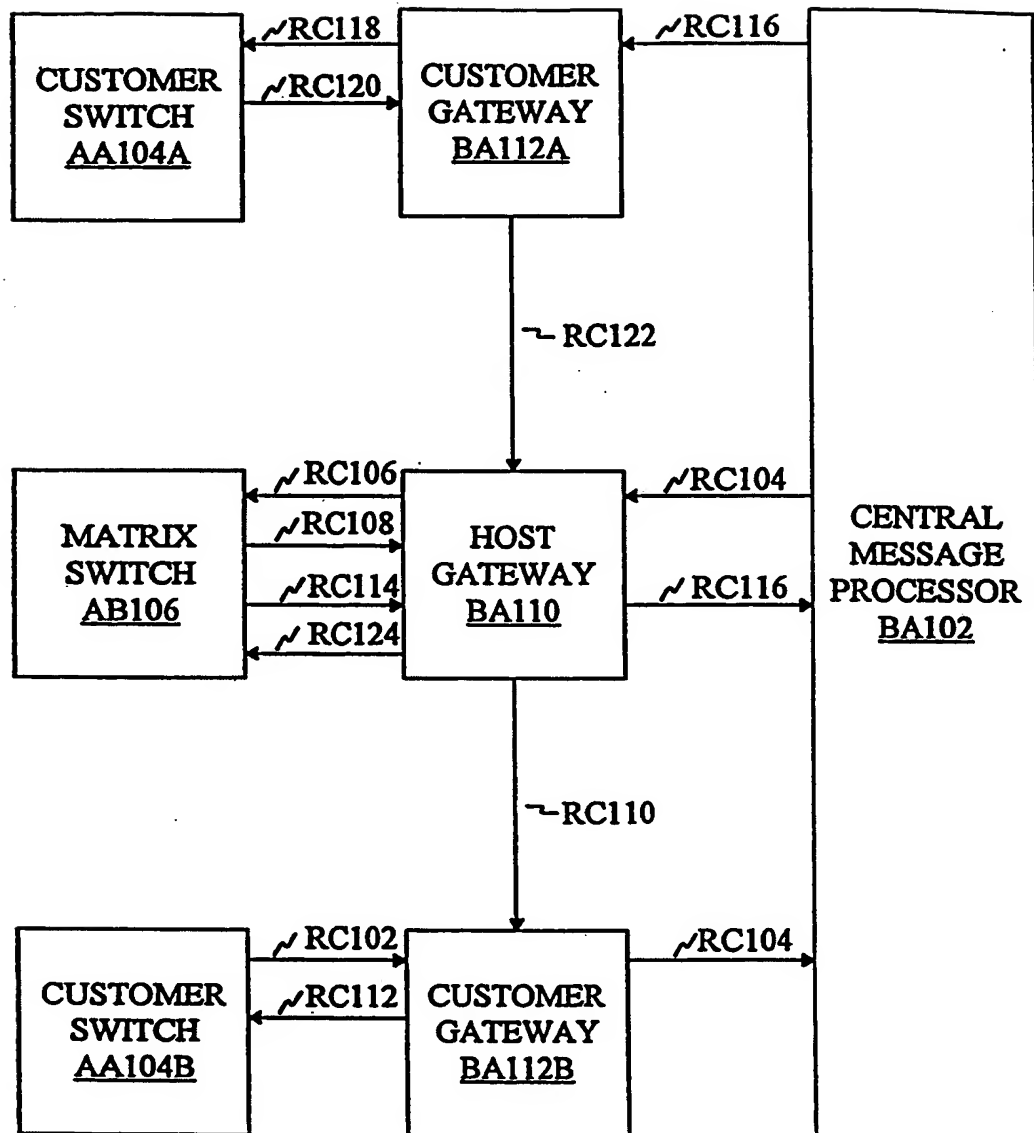


FIG 128

FIG 130	FIG 131
----------------	----------------

FIG 129

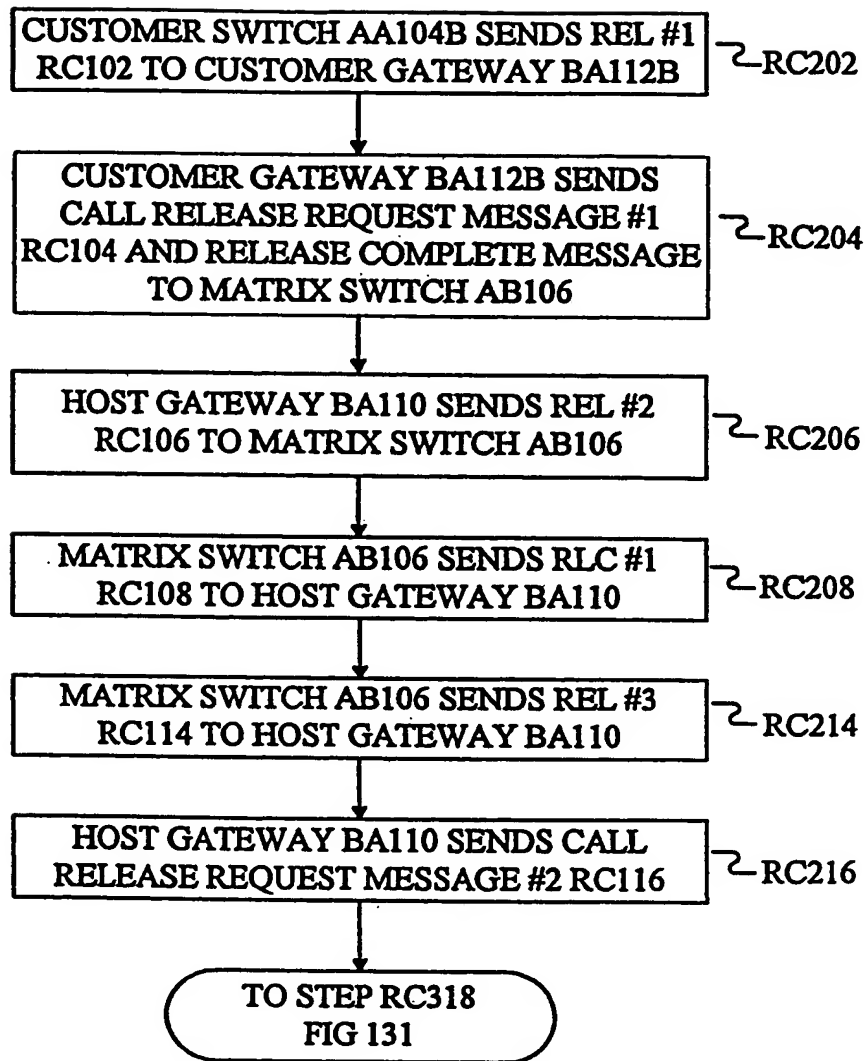


FIG 130

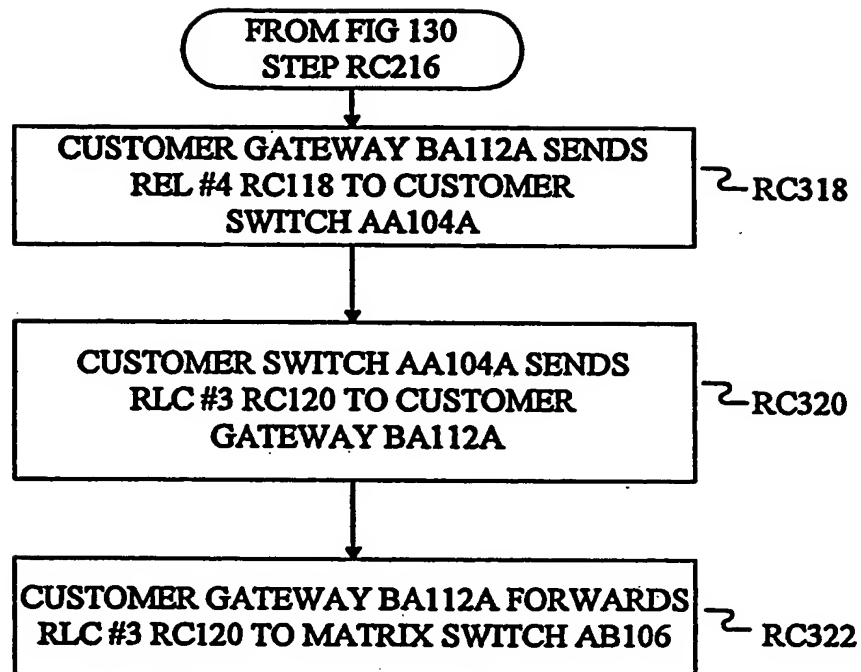


FIG 131

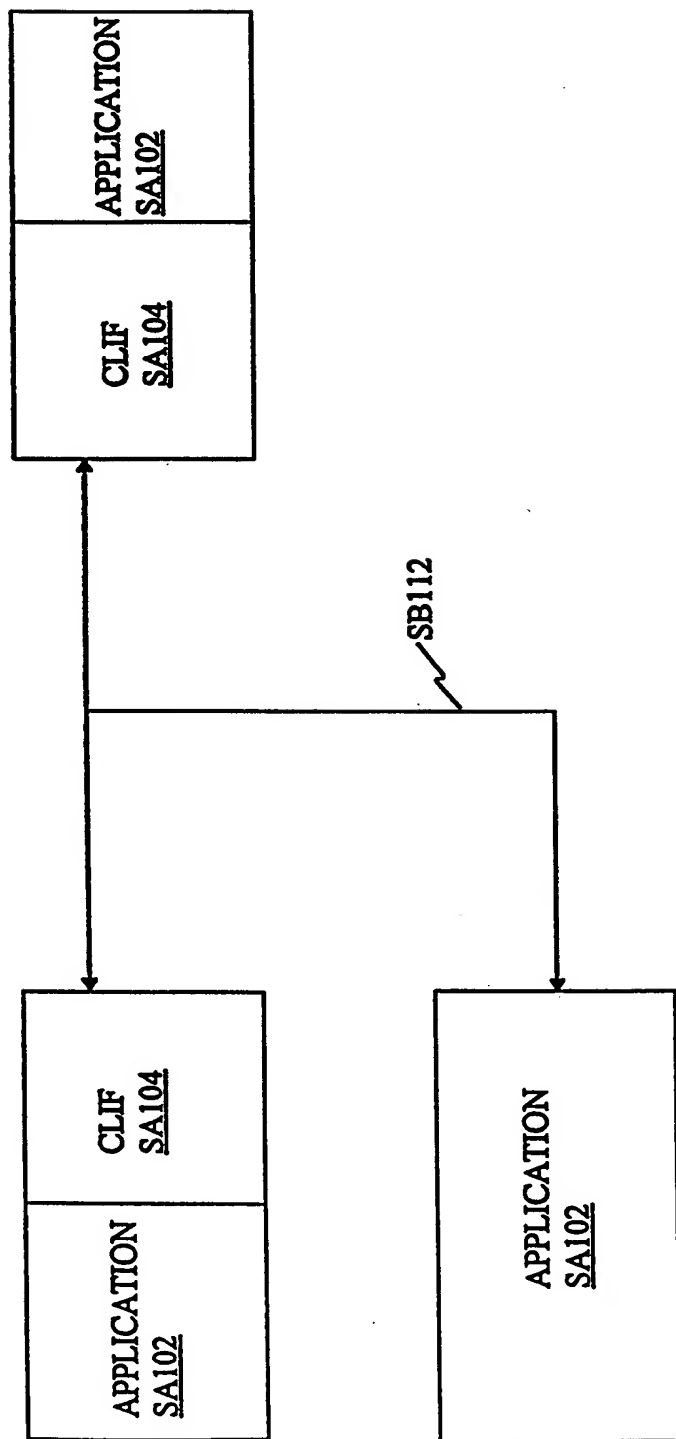


FIG 132

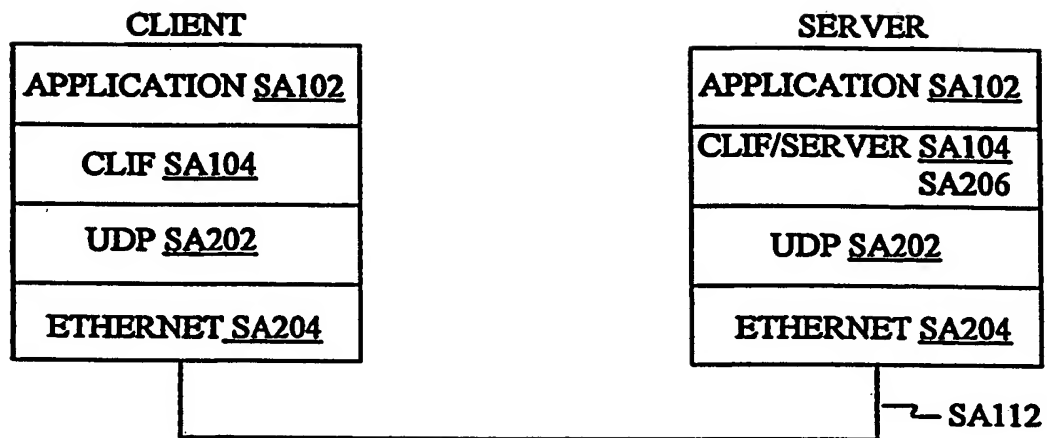


FIG 133

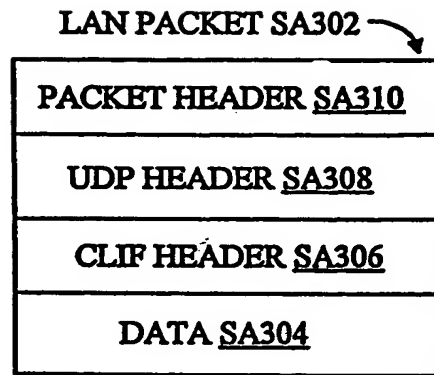


FIG 134

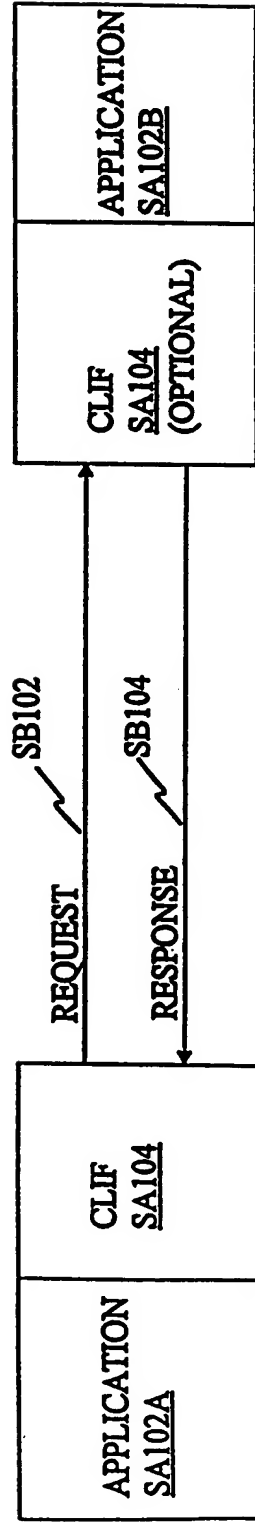


FIG 135

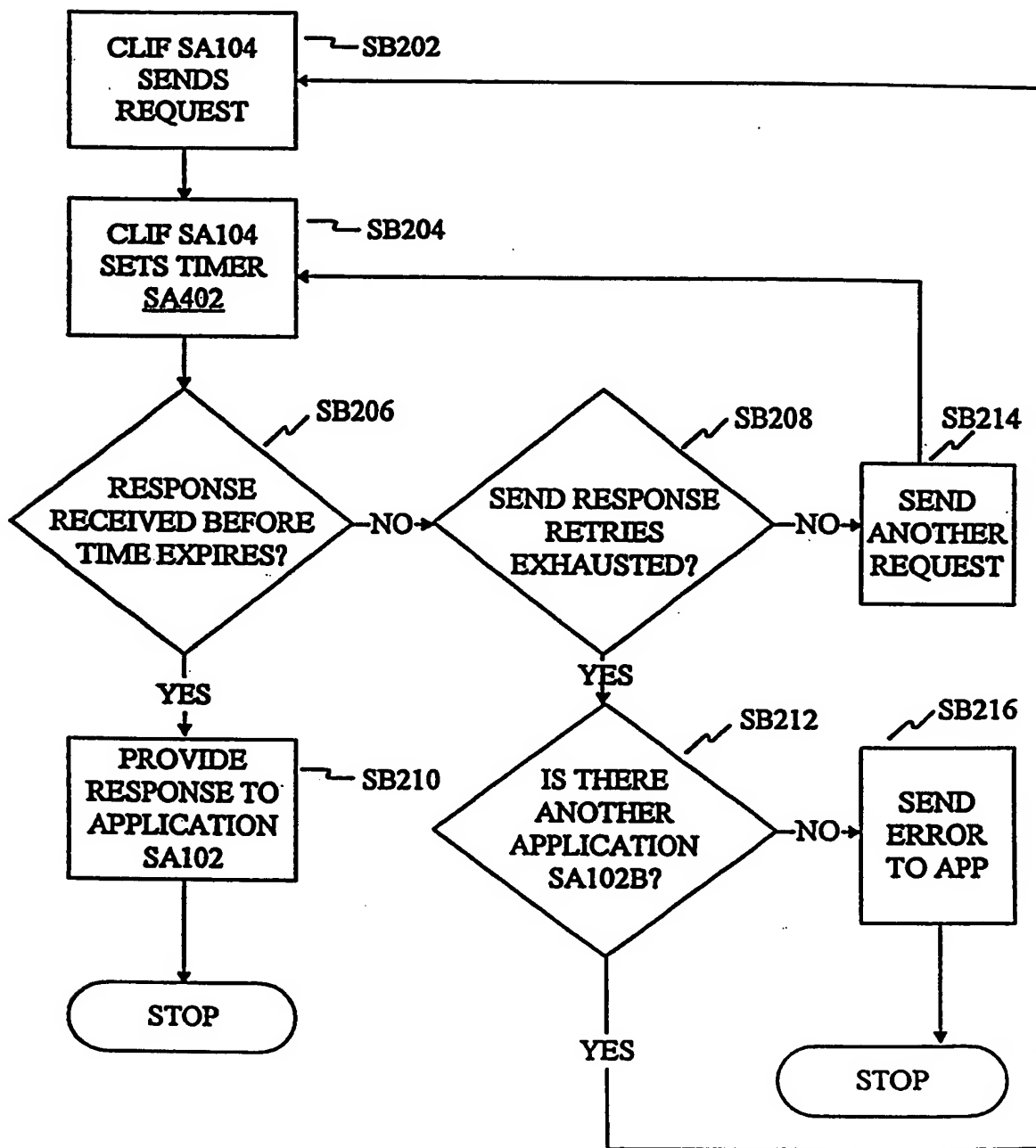


FIG 136

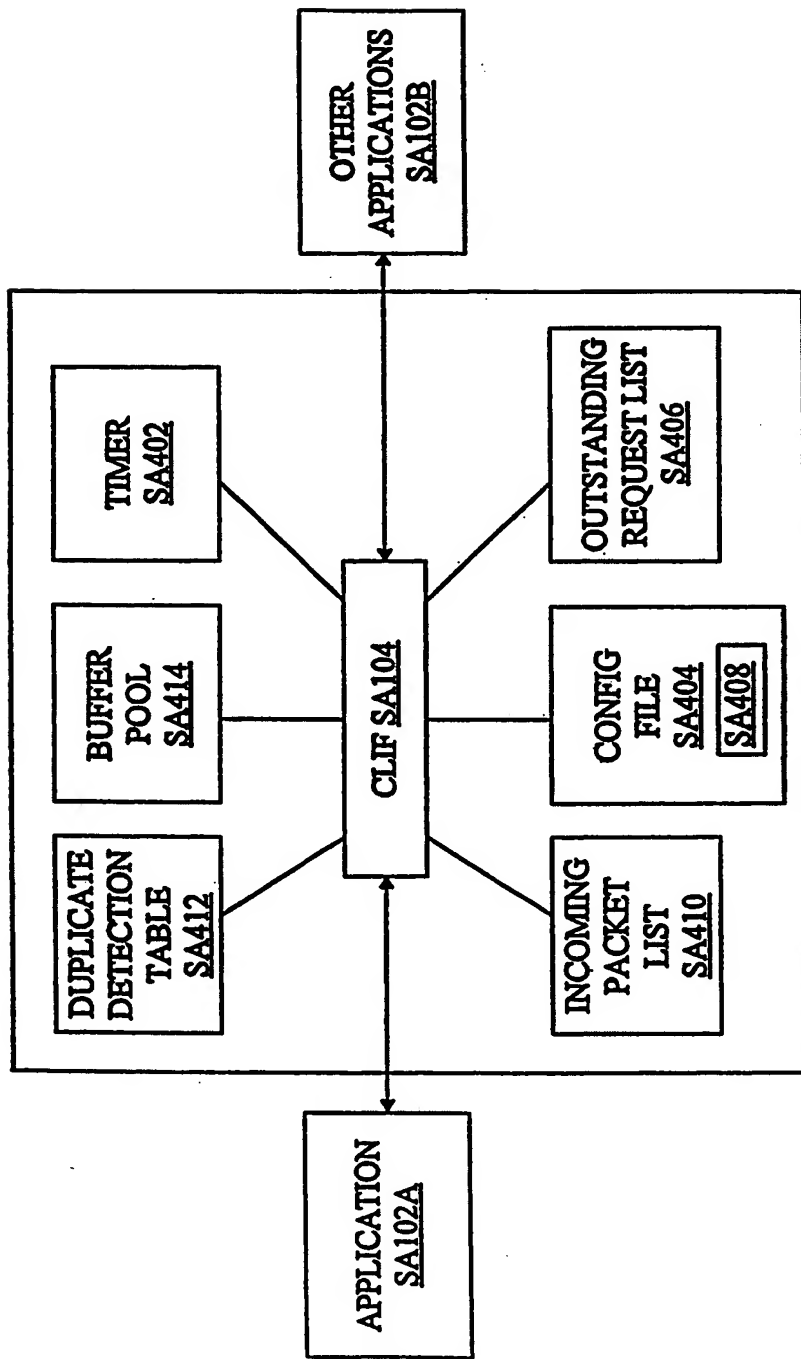


FIG 137

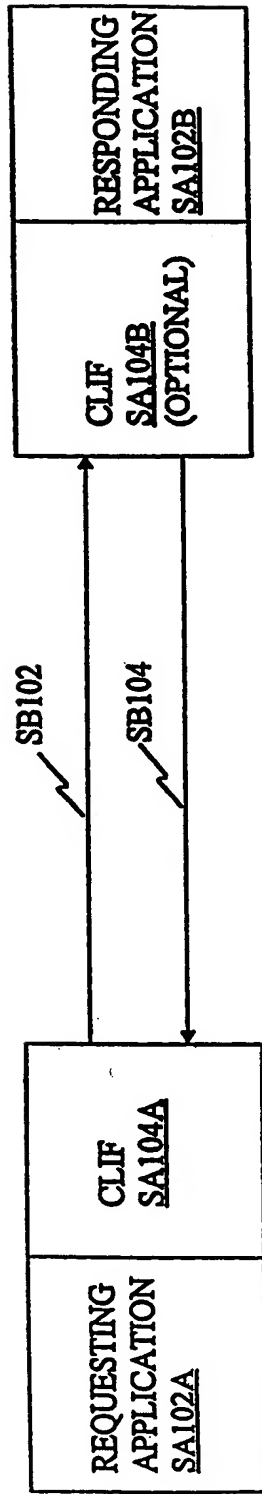


FIG 138

FIG 140	FIG 141
----------------	----------------

FIG 139

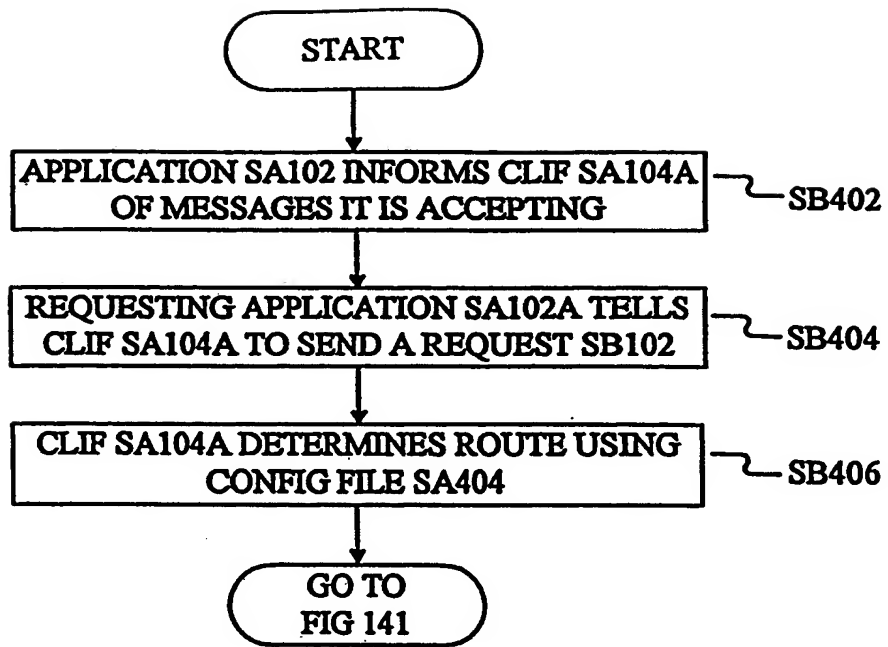


FIG 140

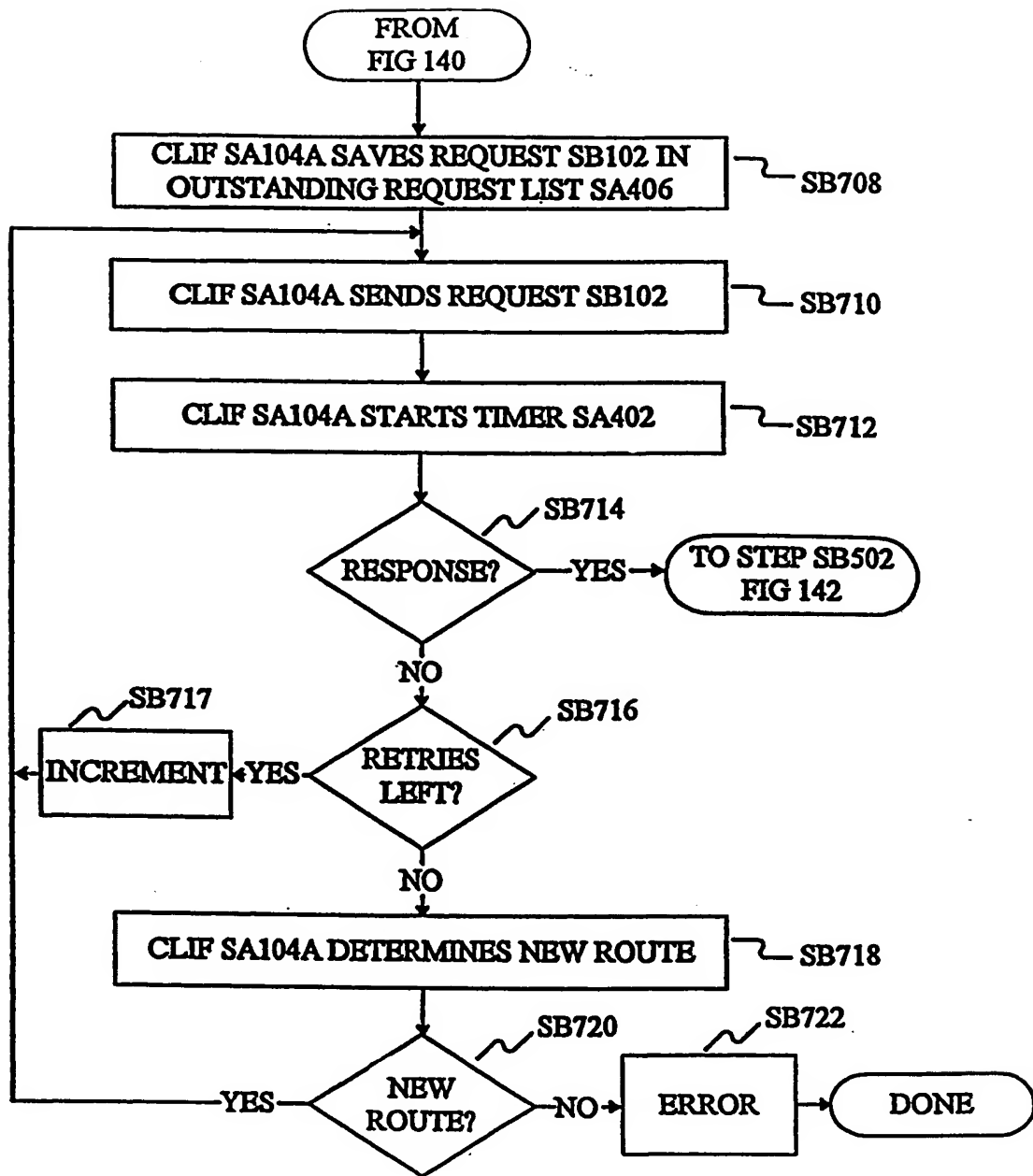


FIG 141

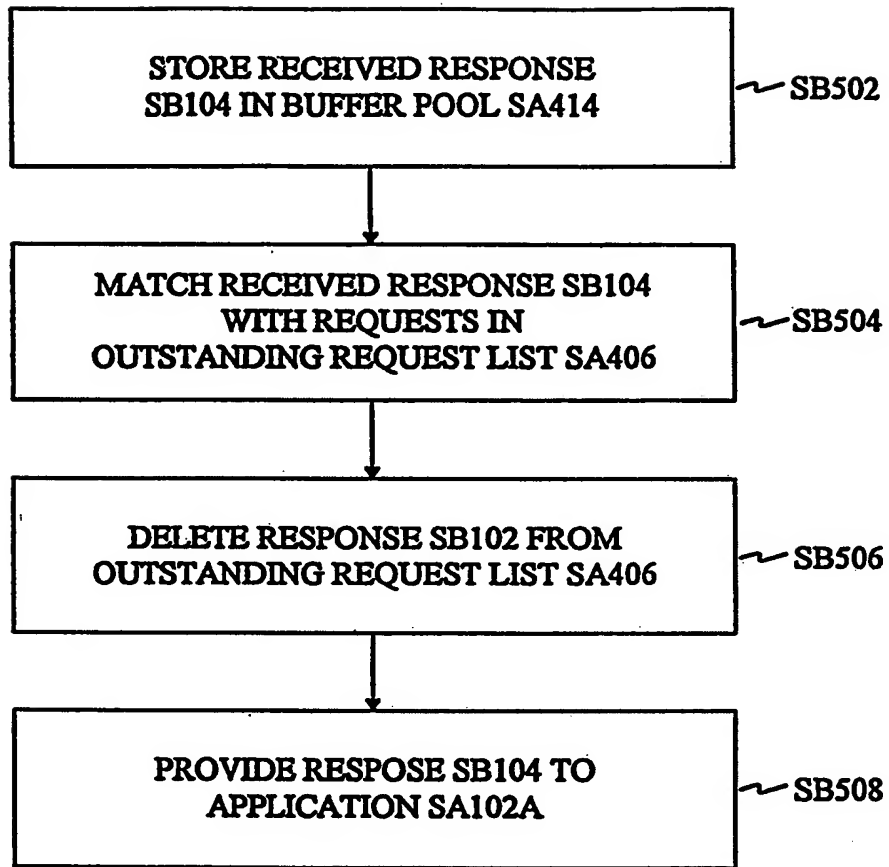


FIG 142

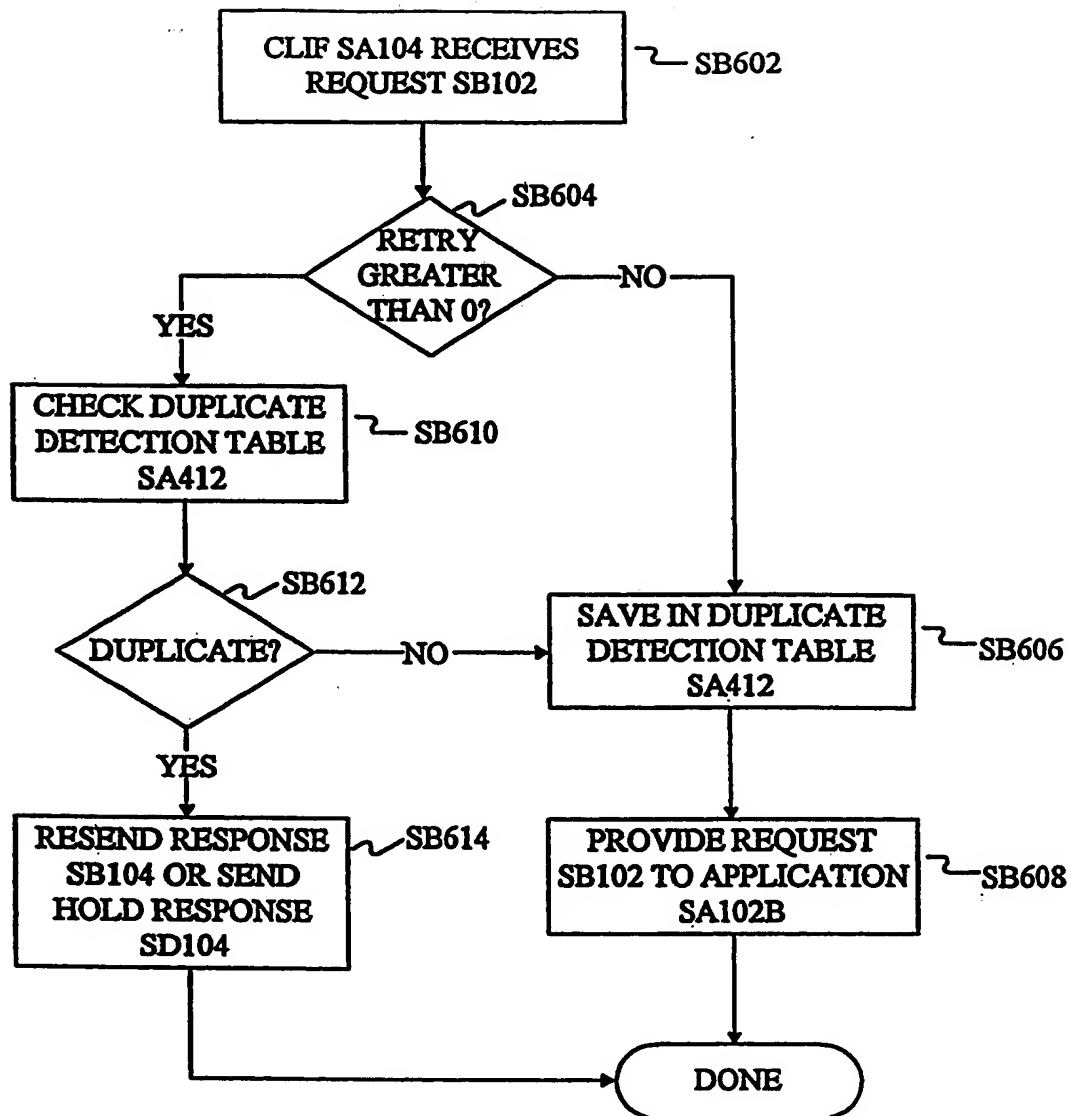


FIG 143

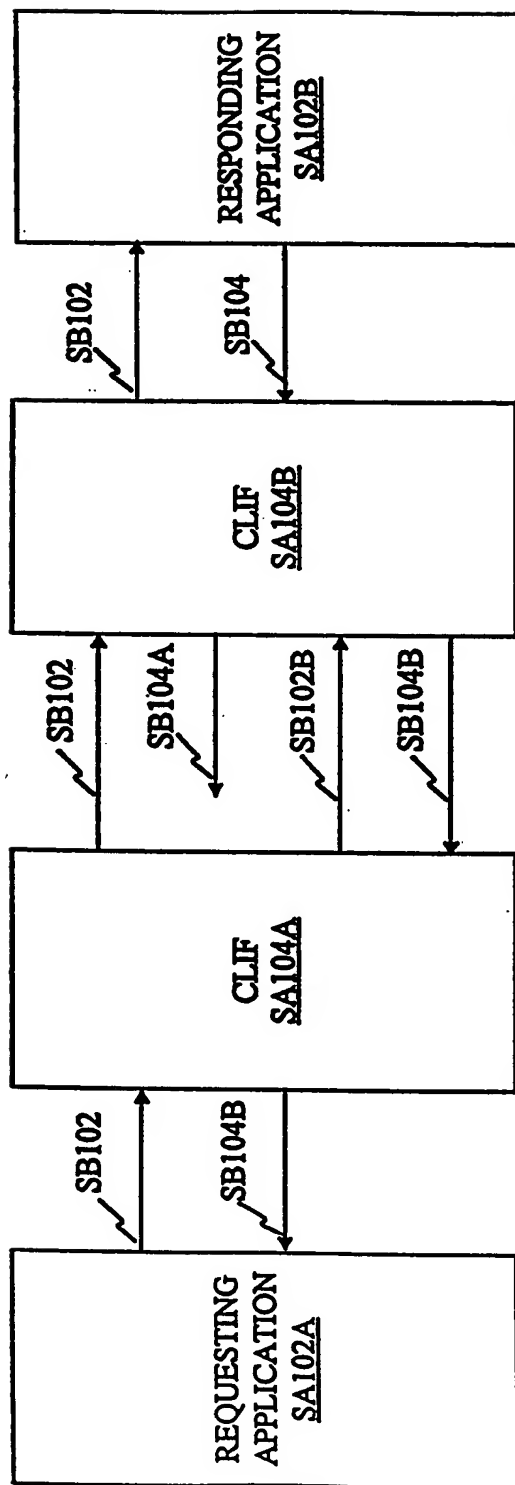


FIG 144

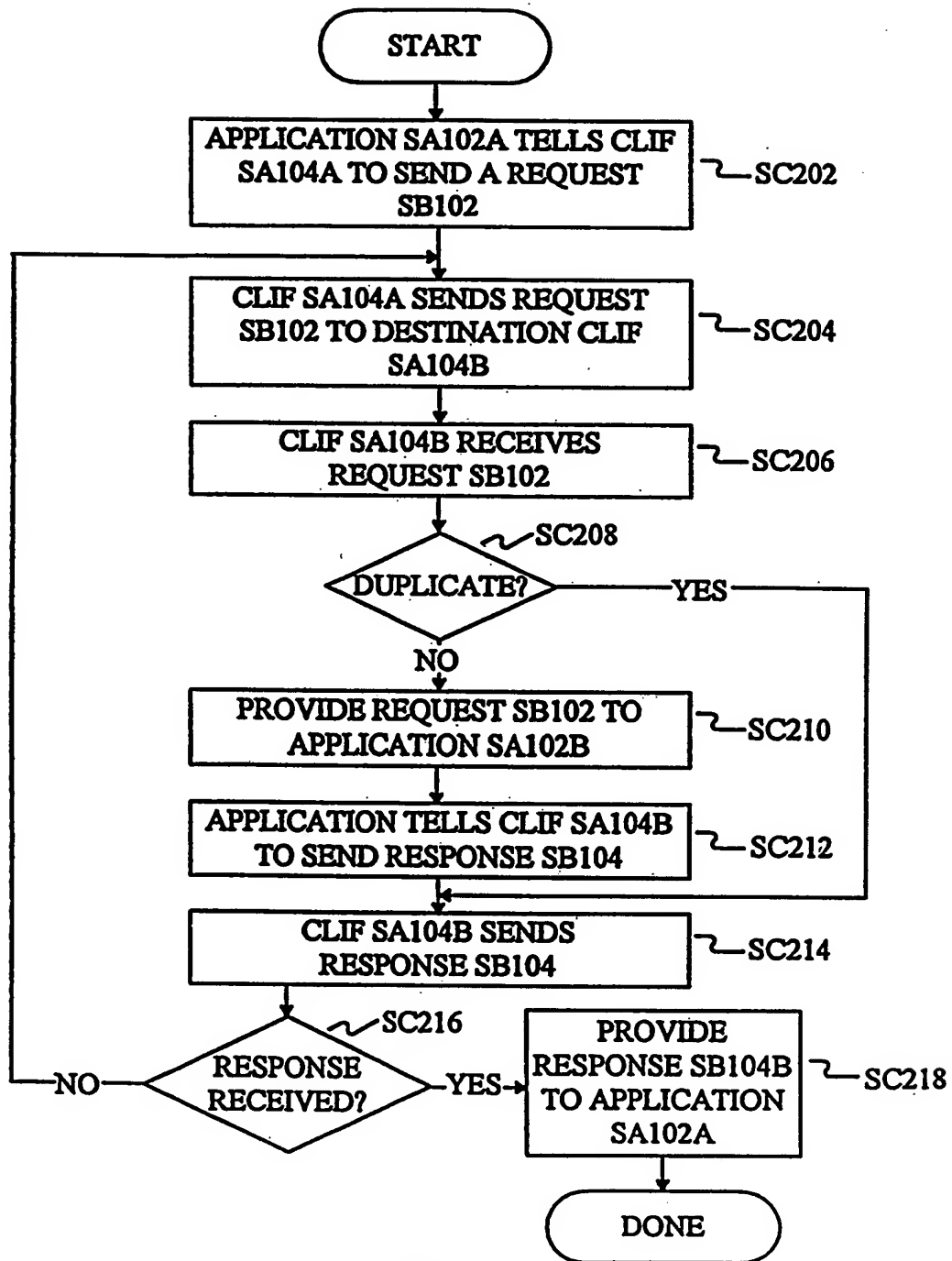


FIG 145

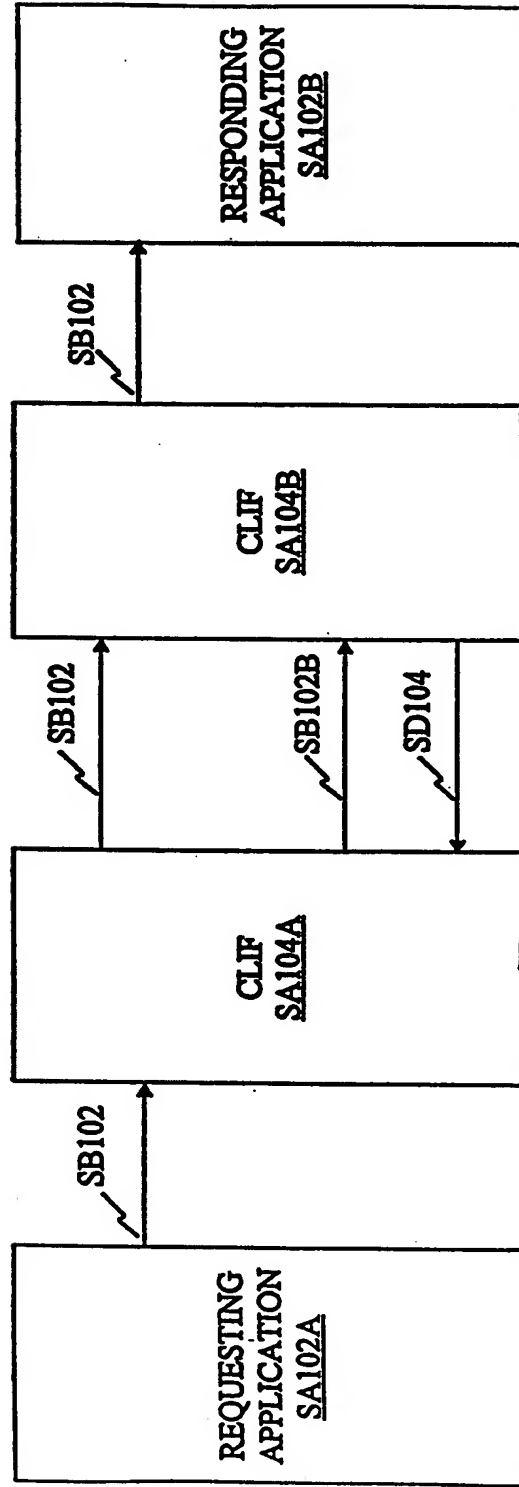


FIG 146

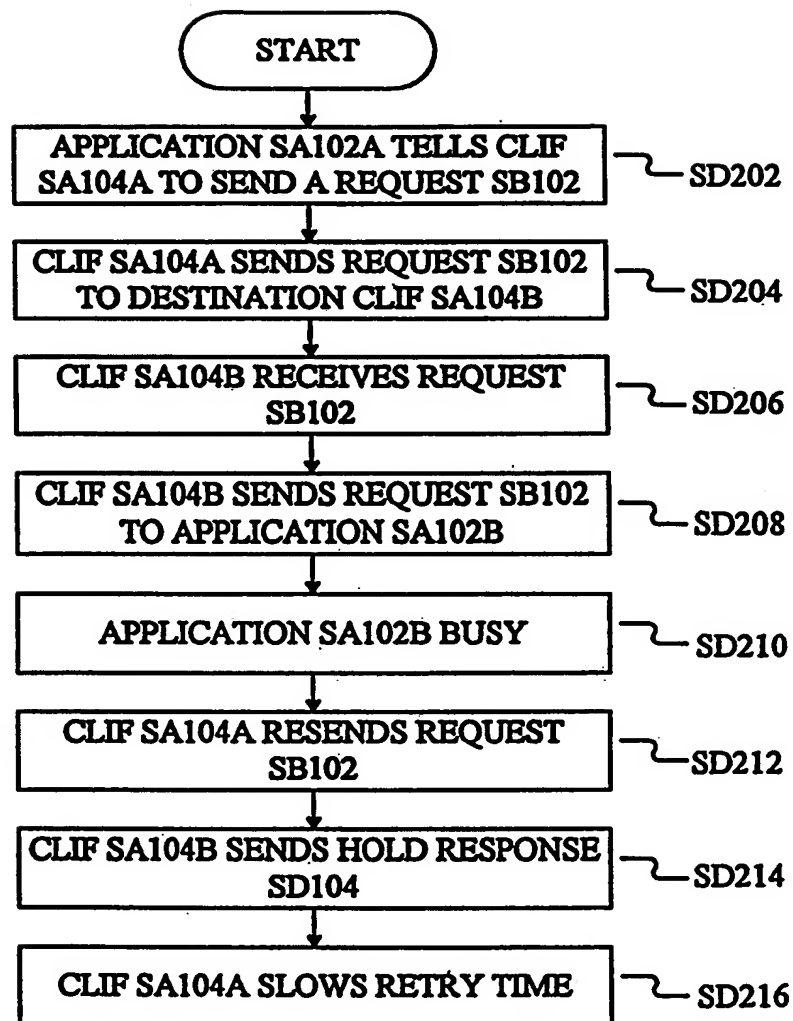


FIG 147

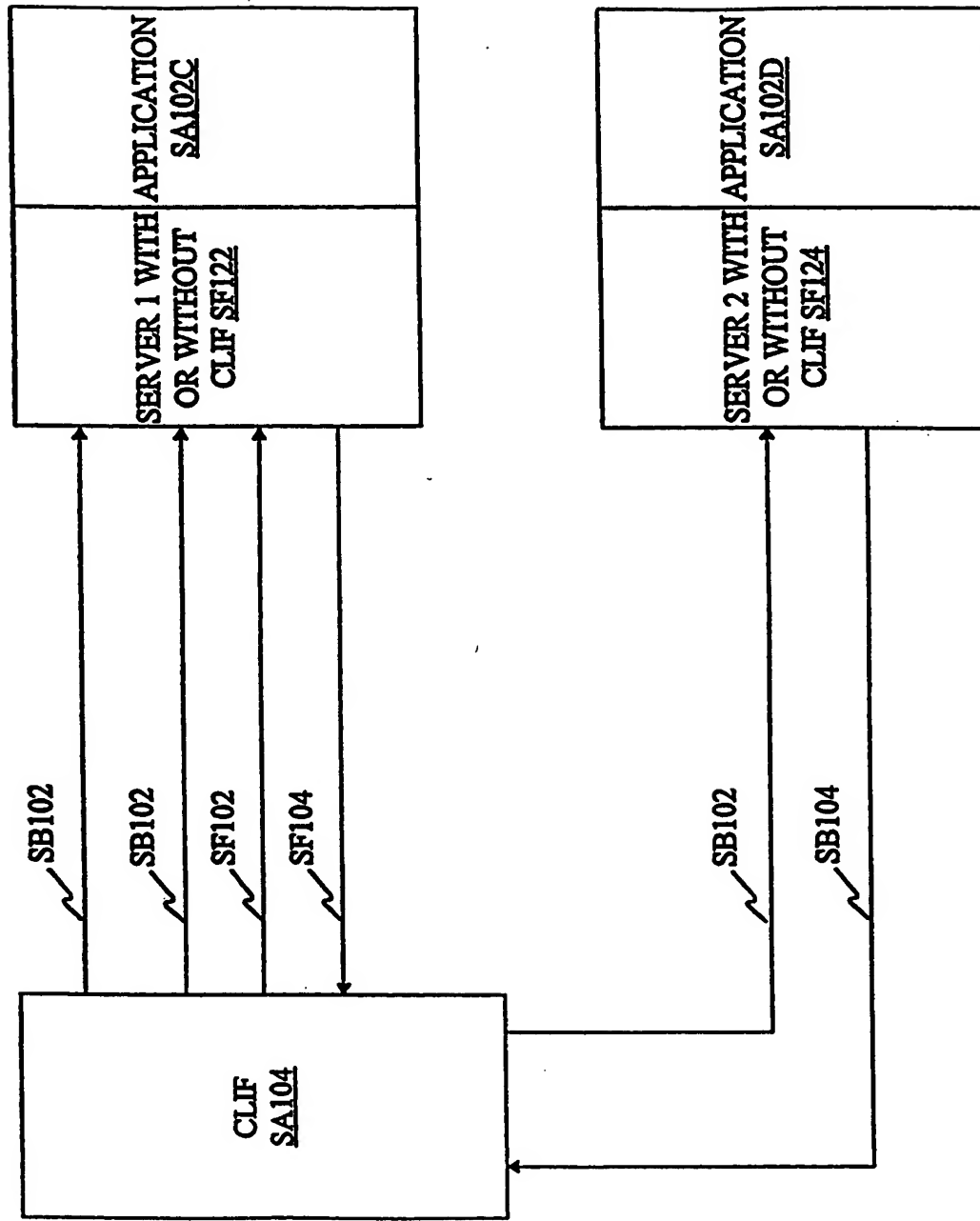


FIG 148

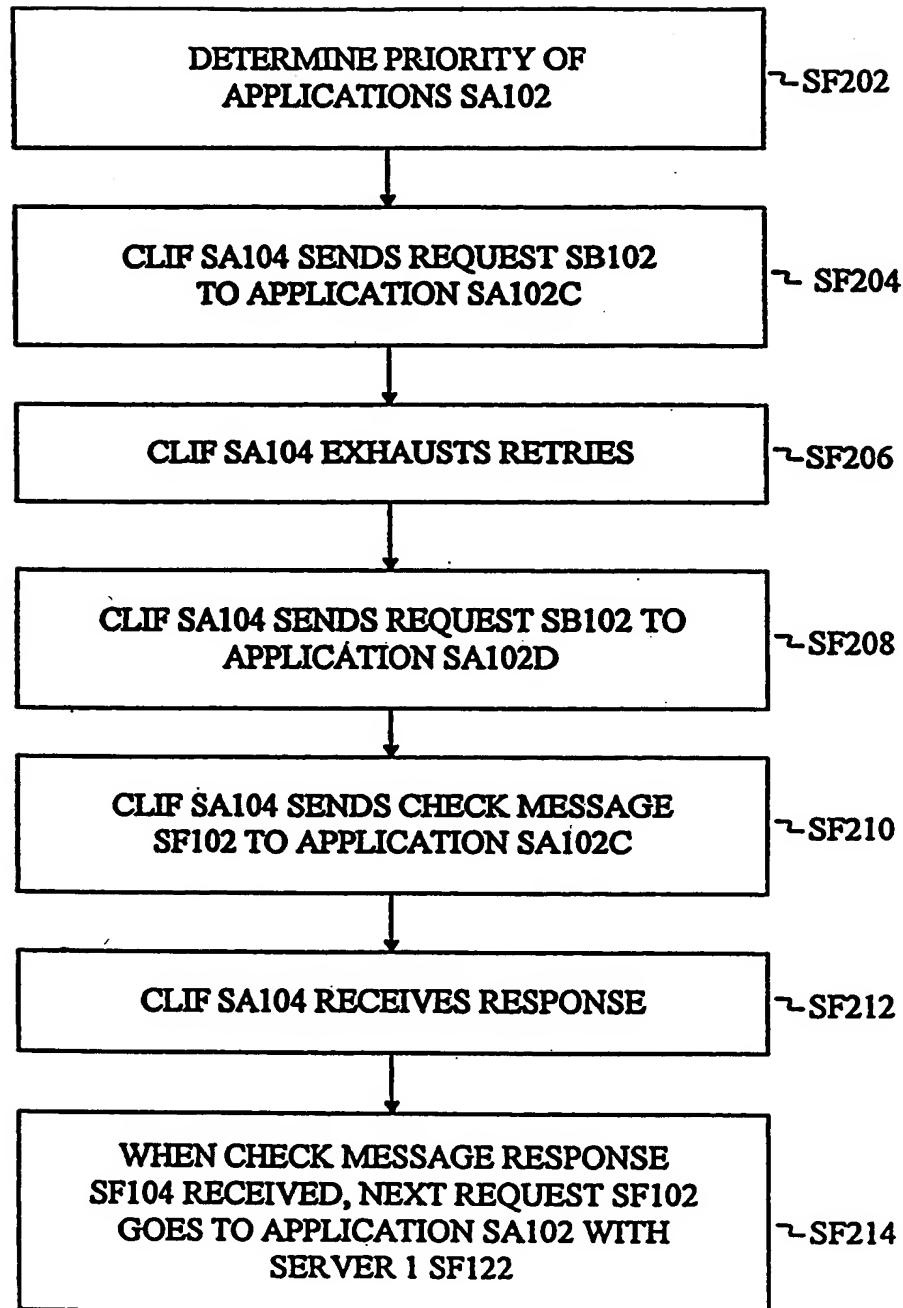


FIG 149

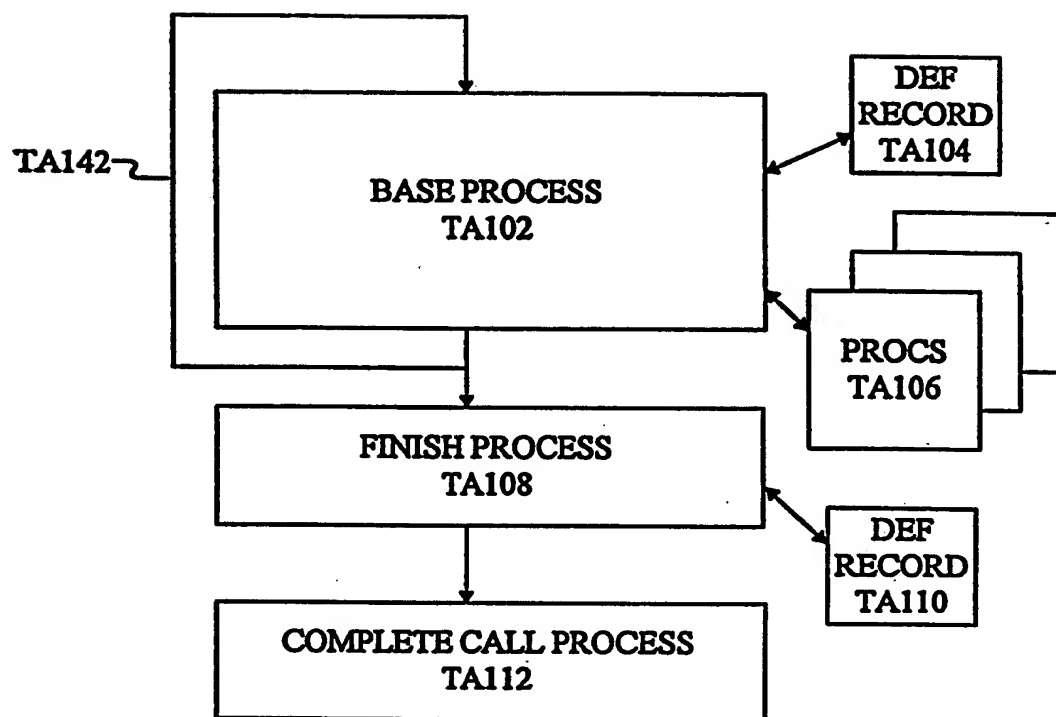


FIG 150

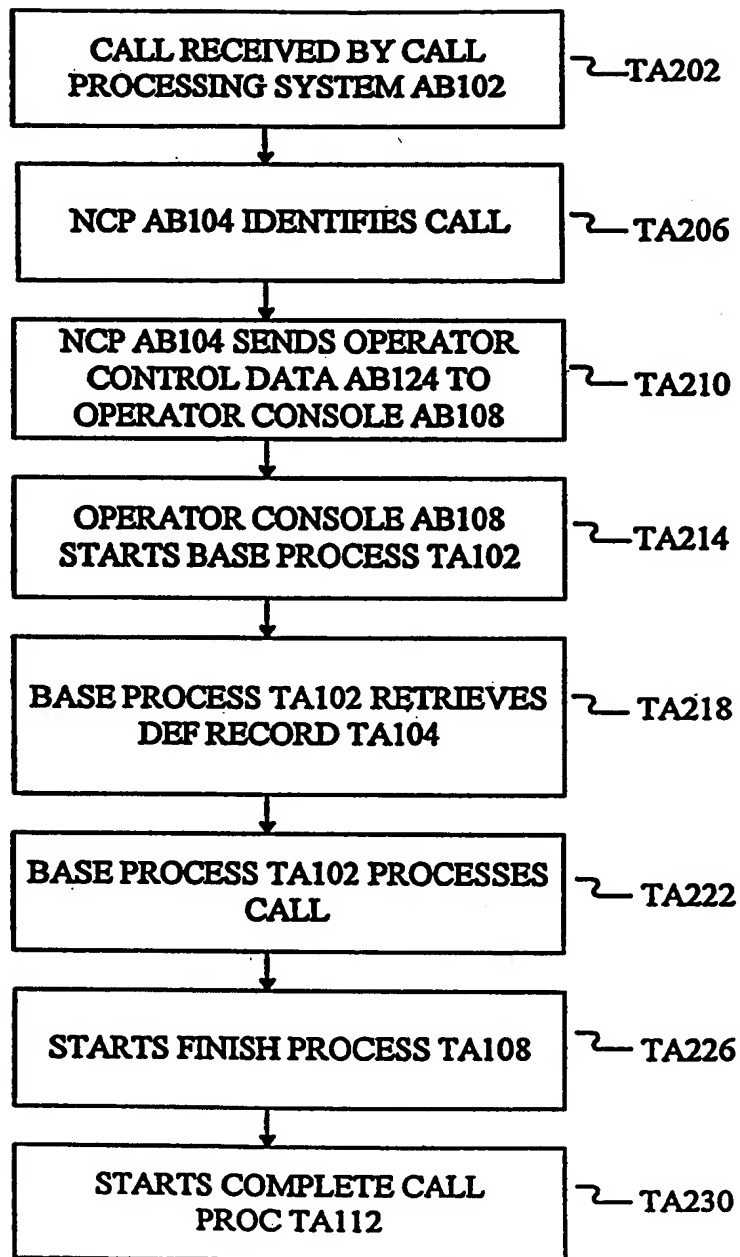


FIG 151

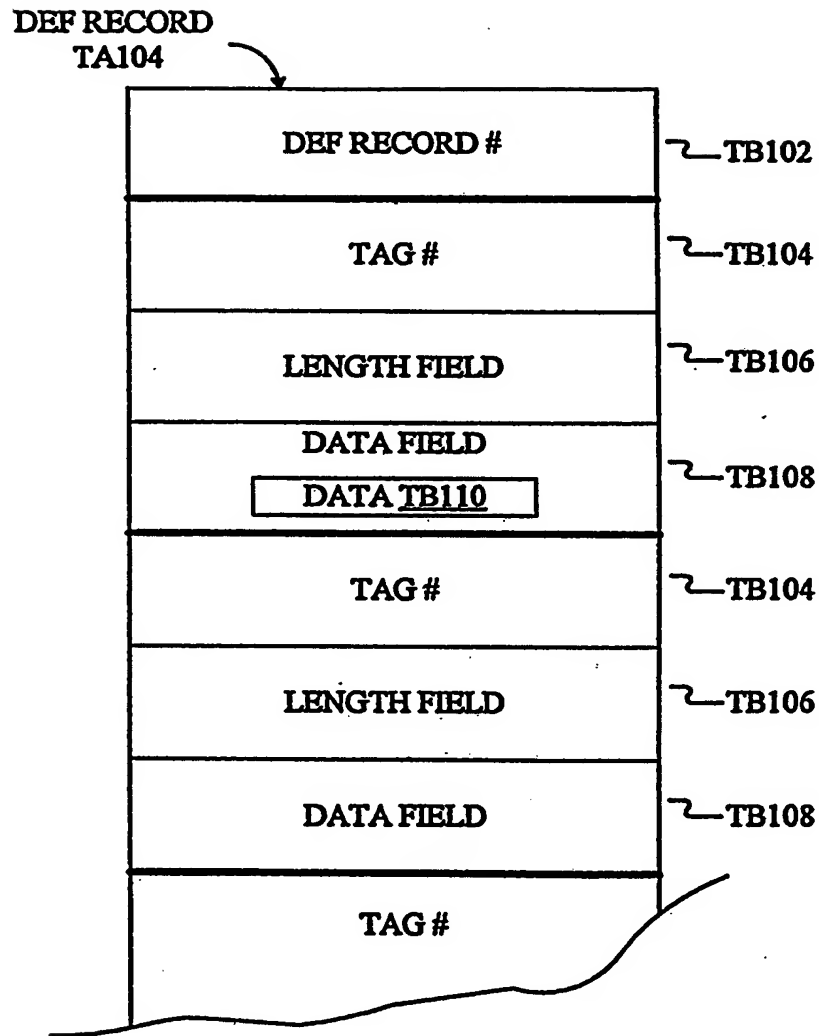


FIG 152

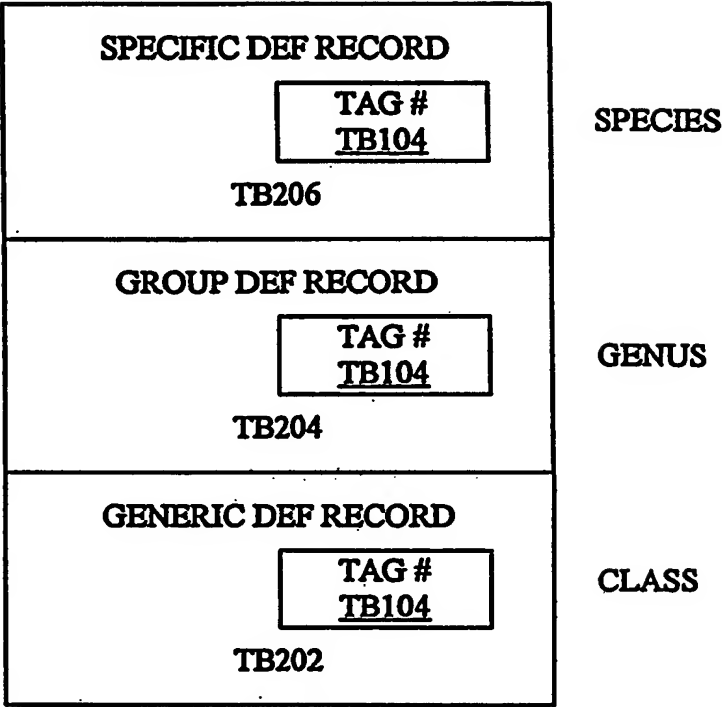


FIG 153

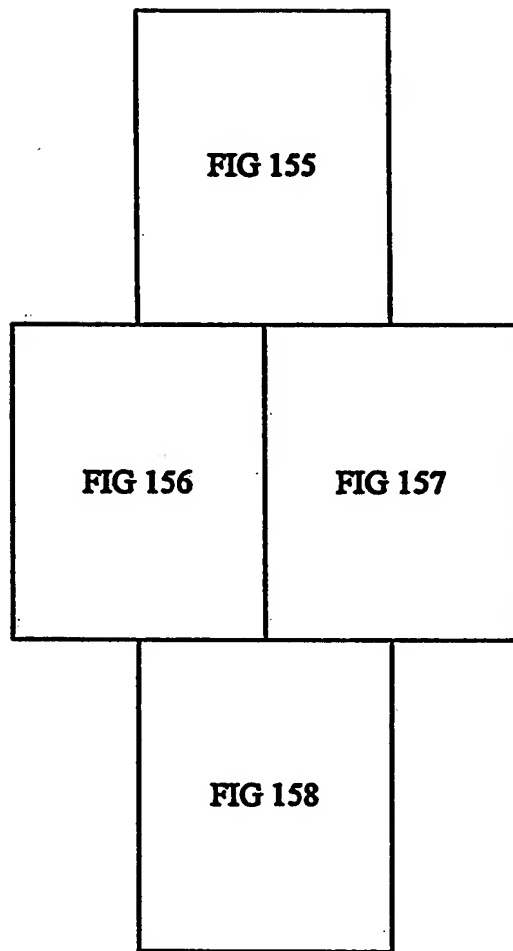


FIG 154

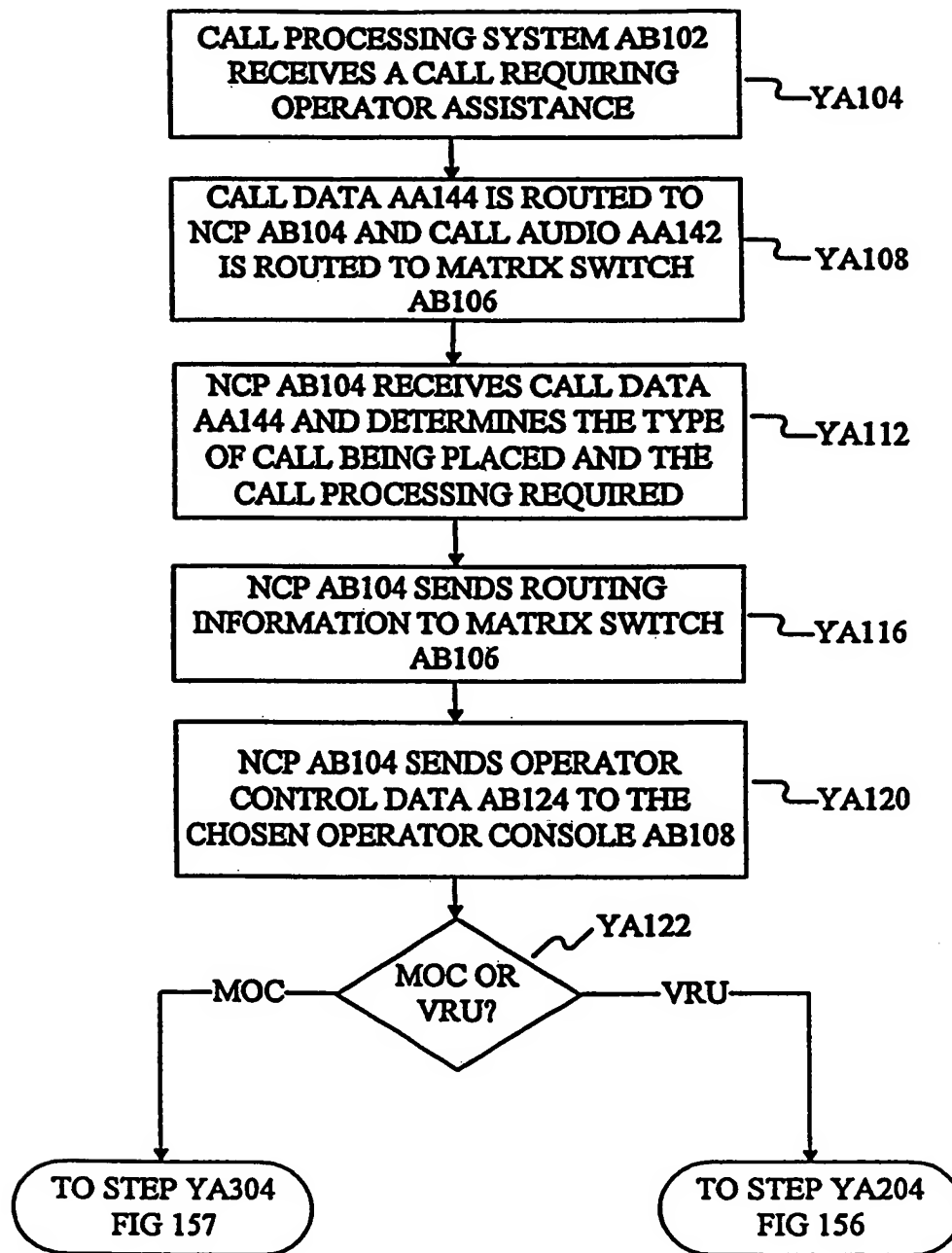


FIG 155

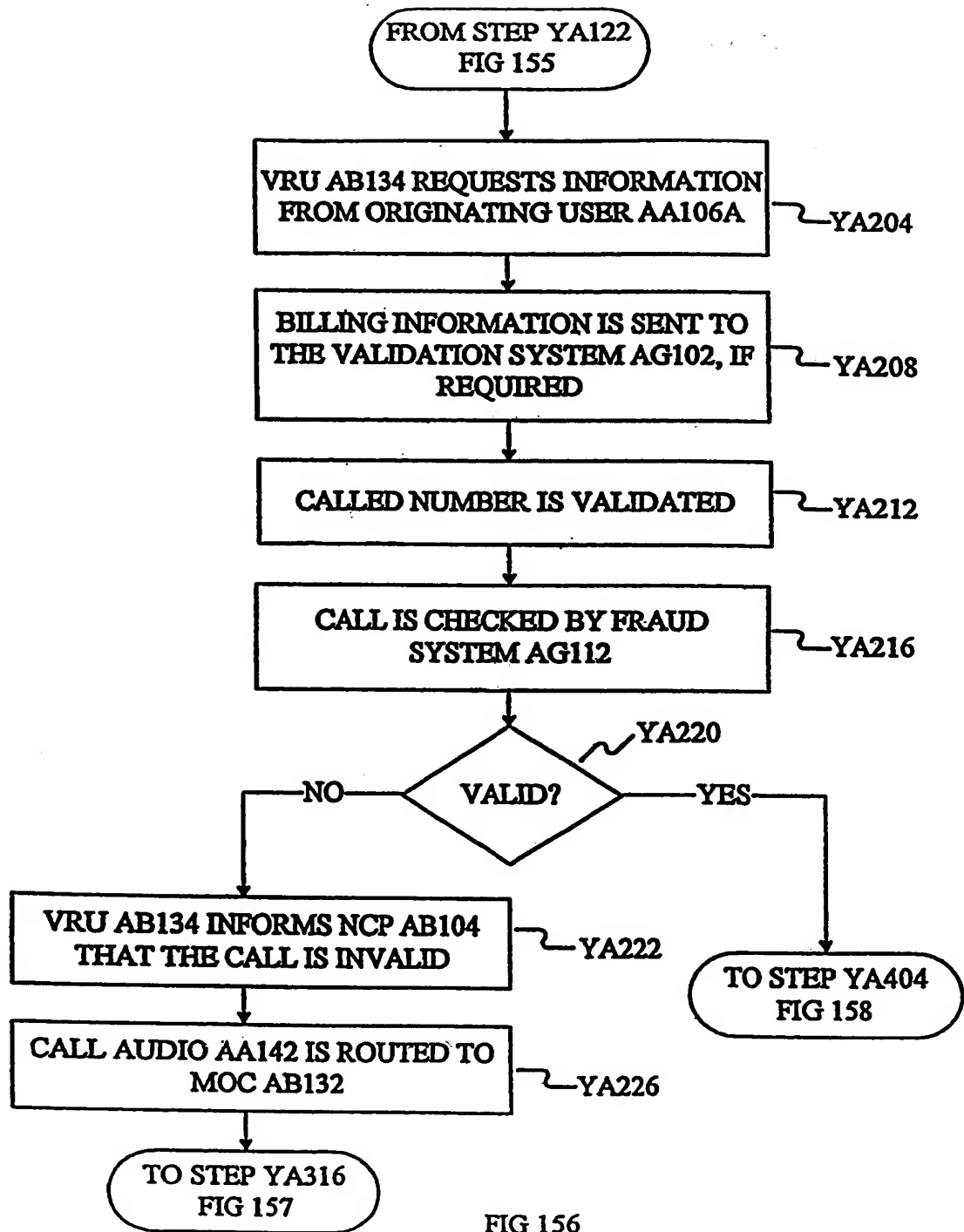


FIG 156

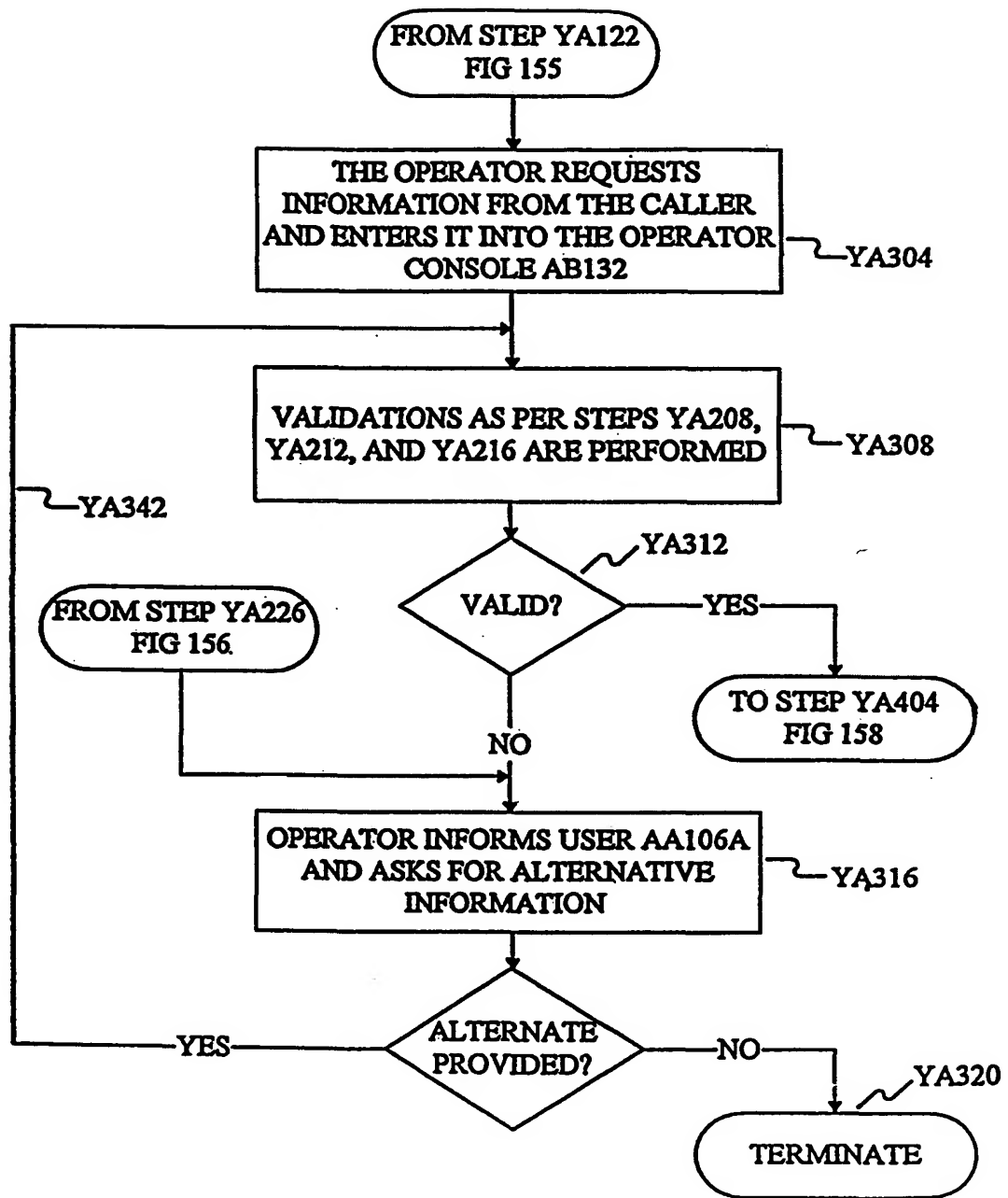


FIG 157

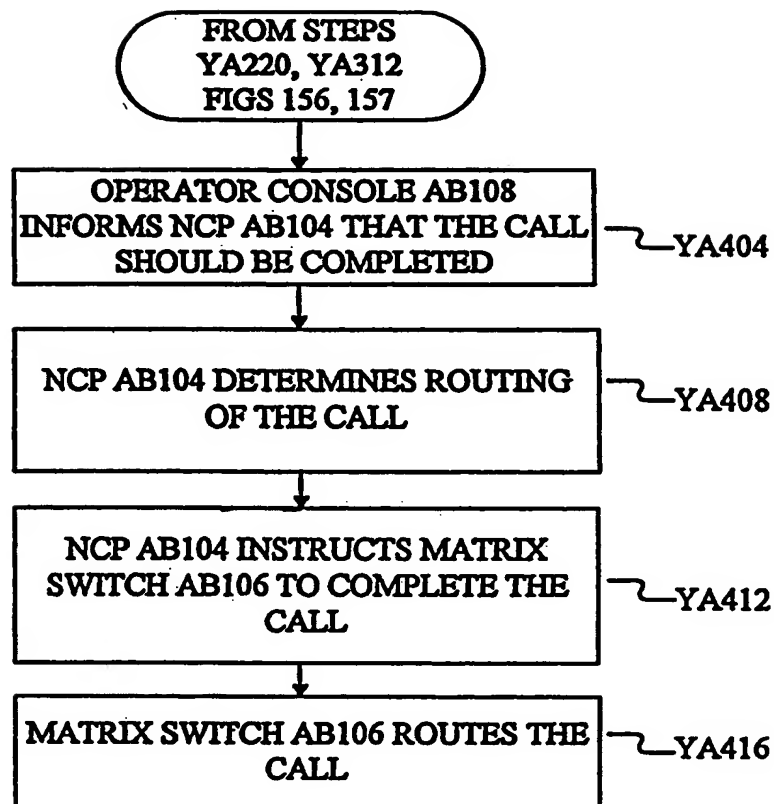


FIG 158

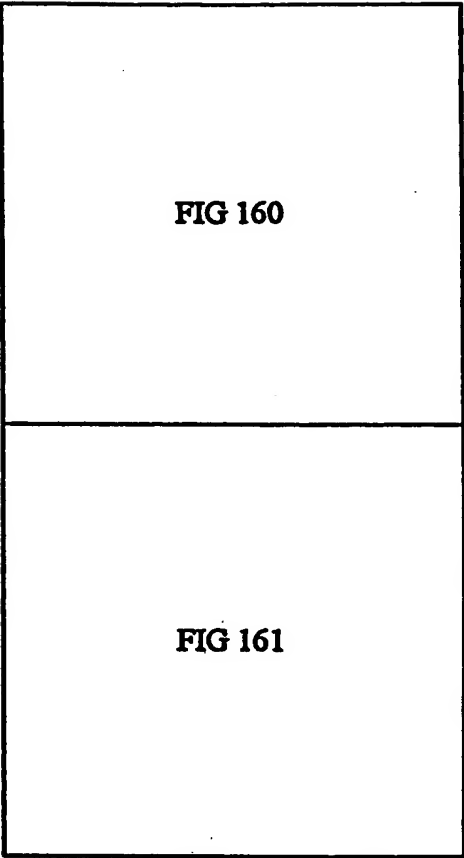


FIG 160

FIG 161

FIG 159

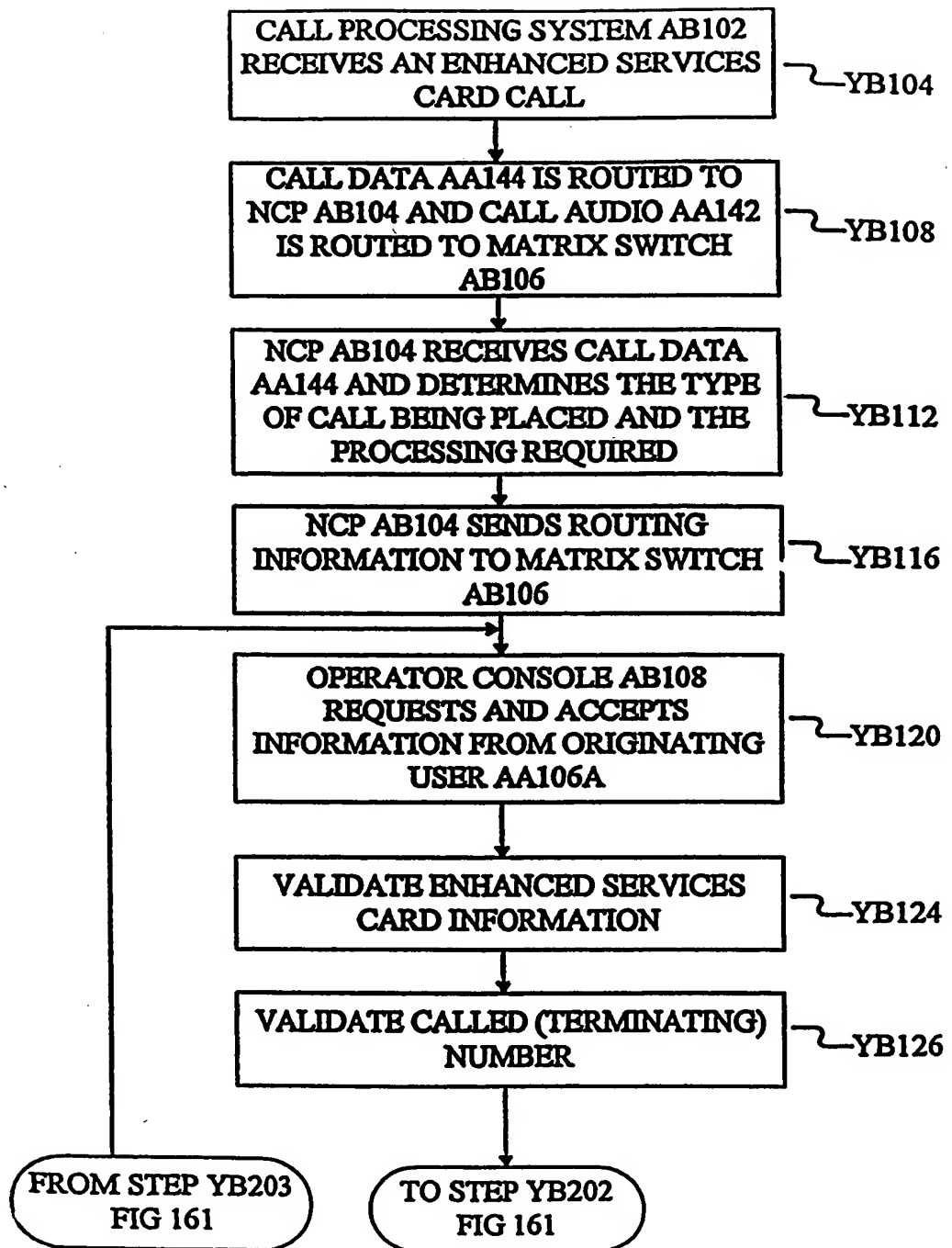


FIG 160

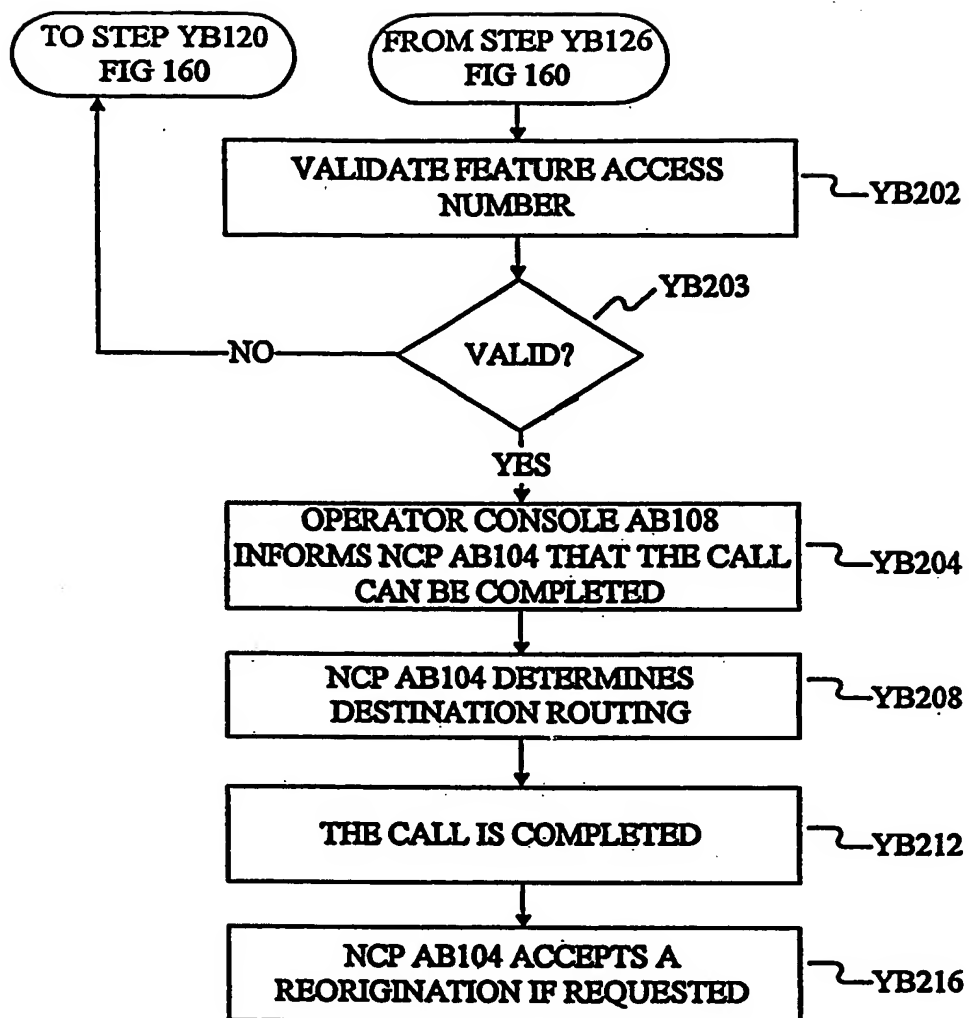


FIG 161

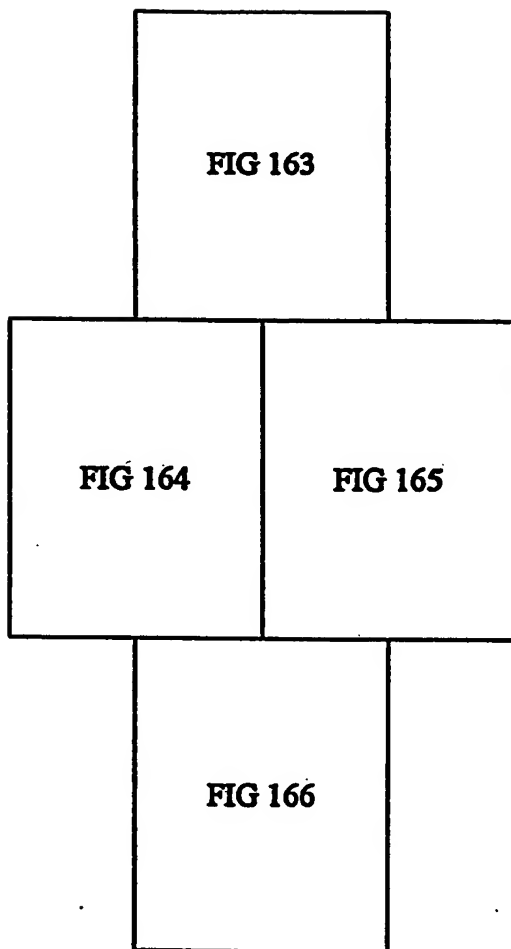


FIG 162

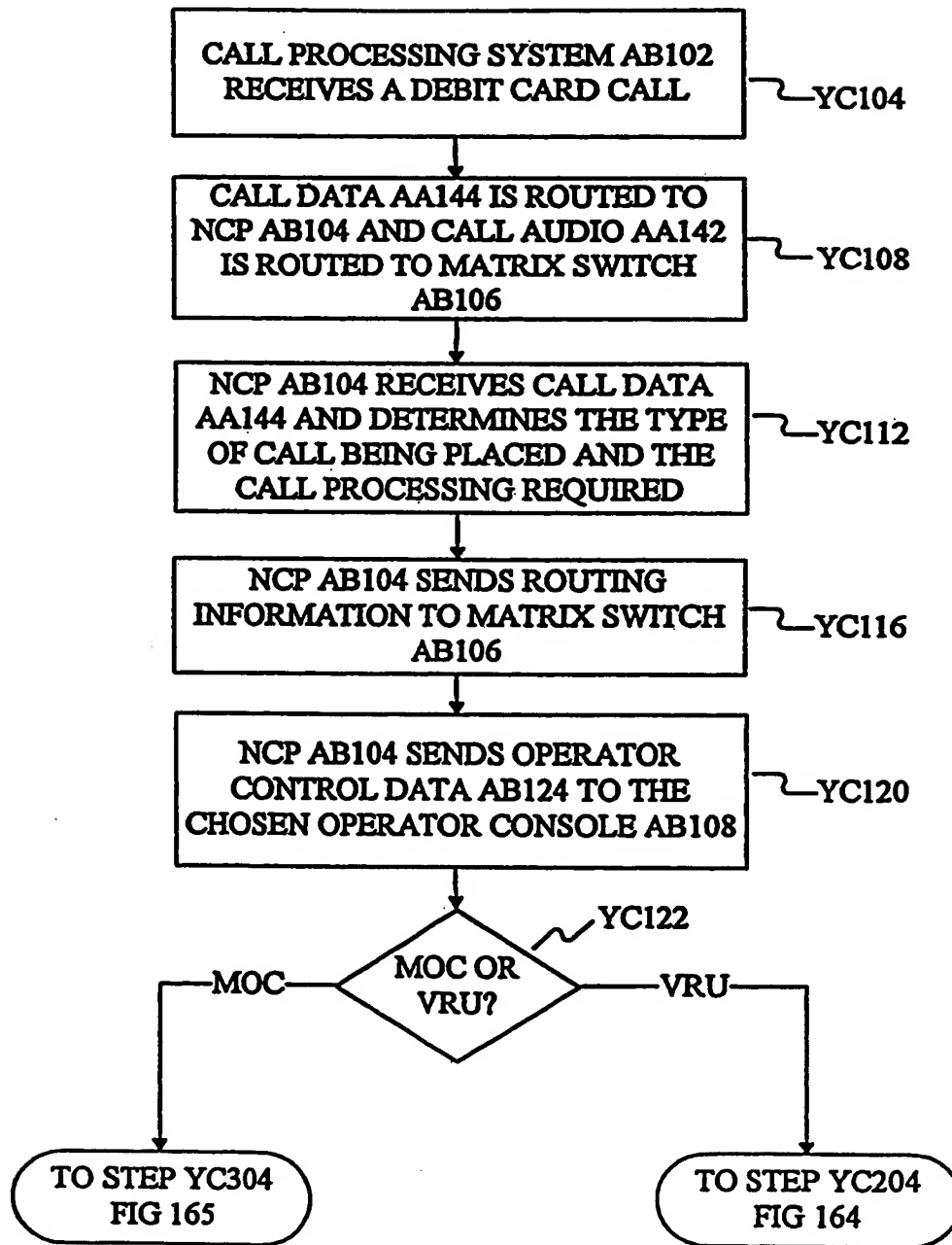


FIG 163

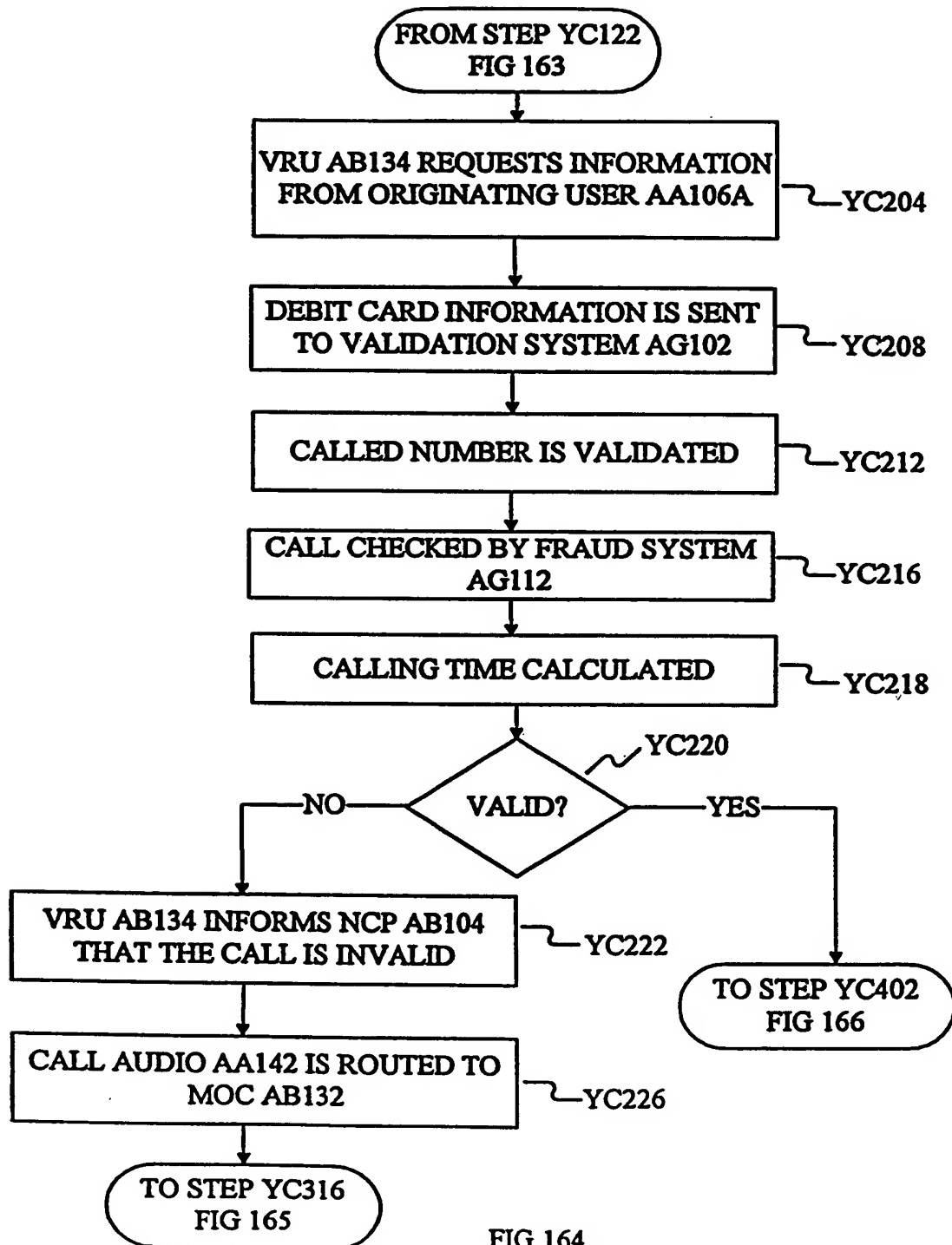


FIG 164

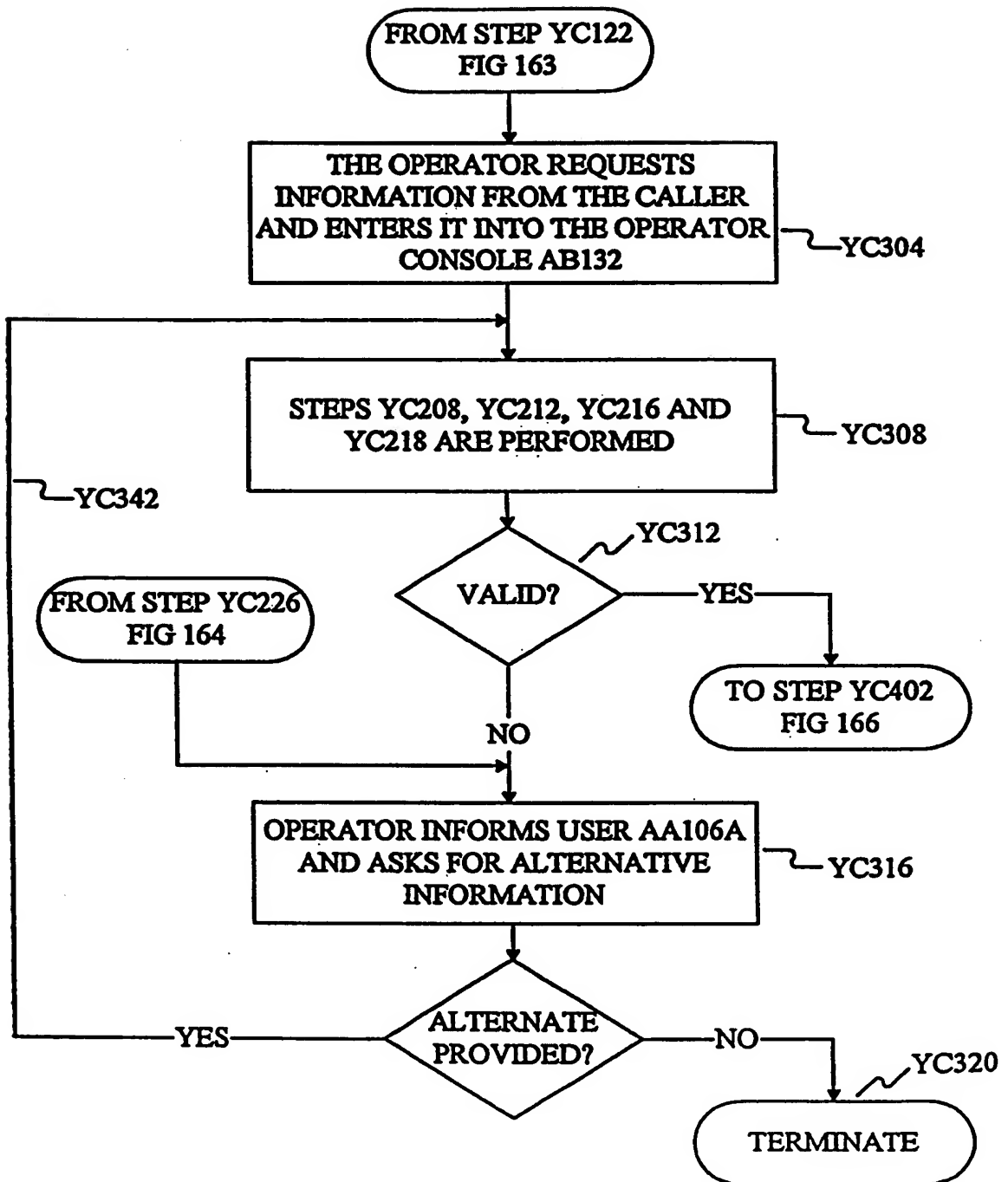


FIG 165

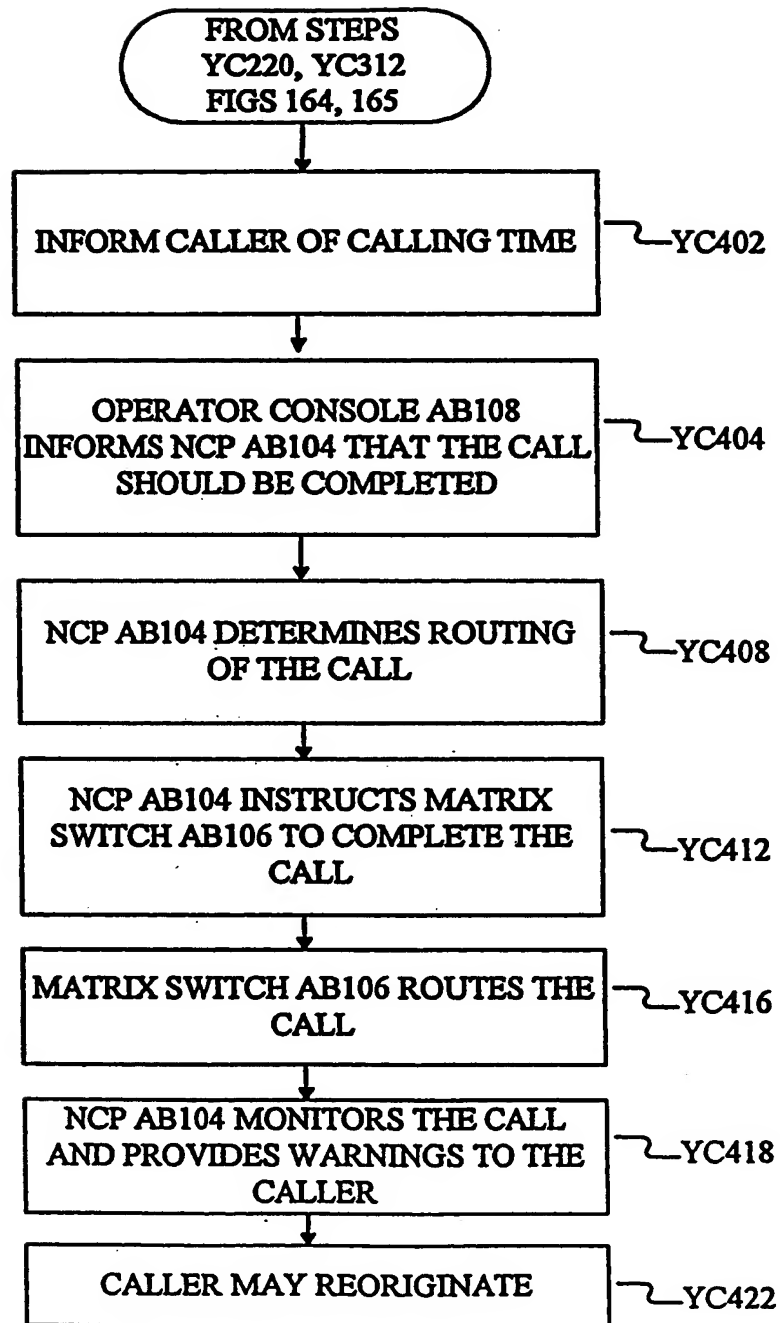


FIG 166

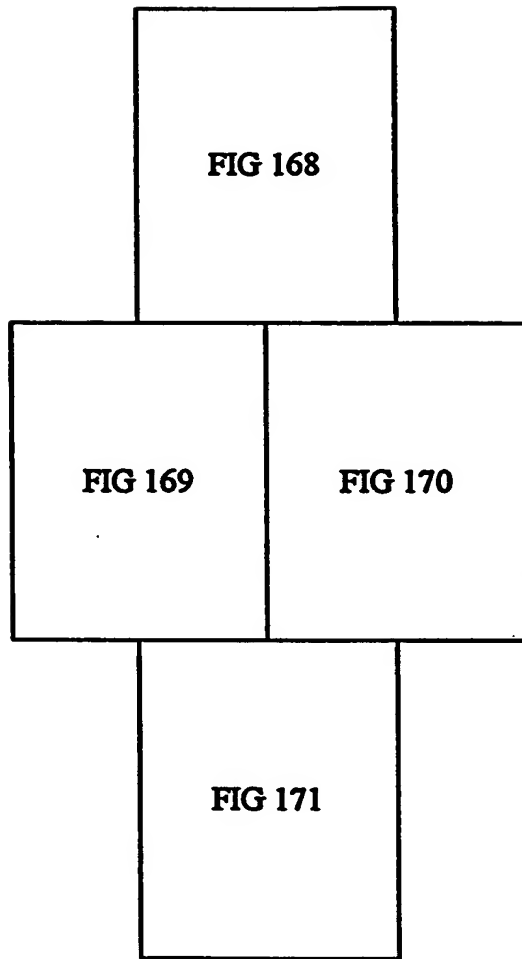


FIG 167

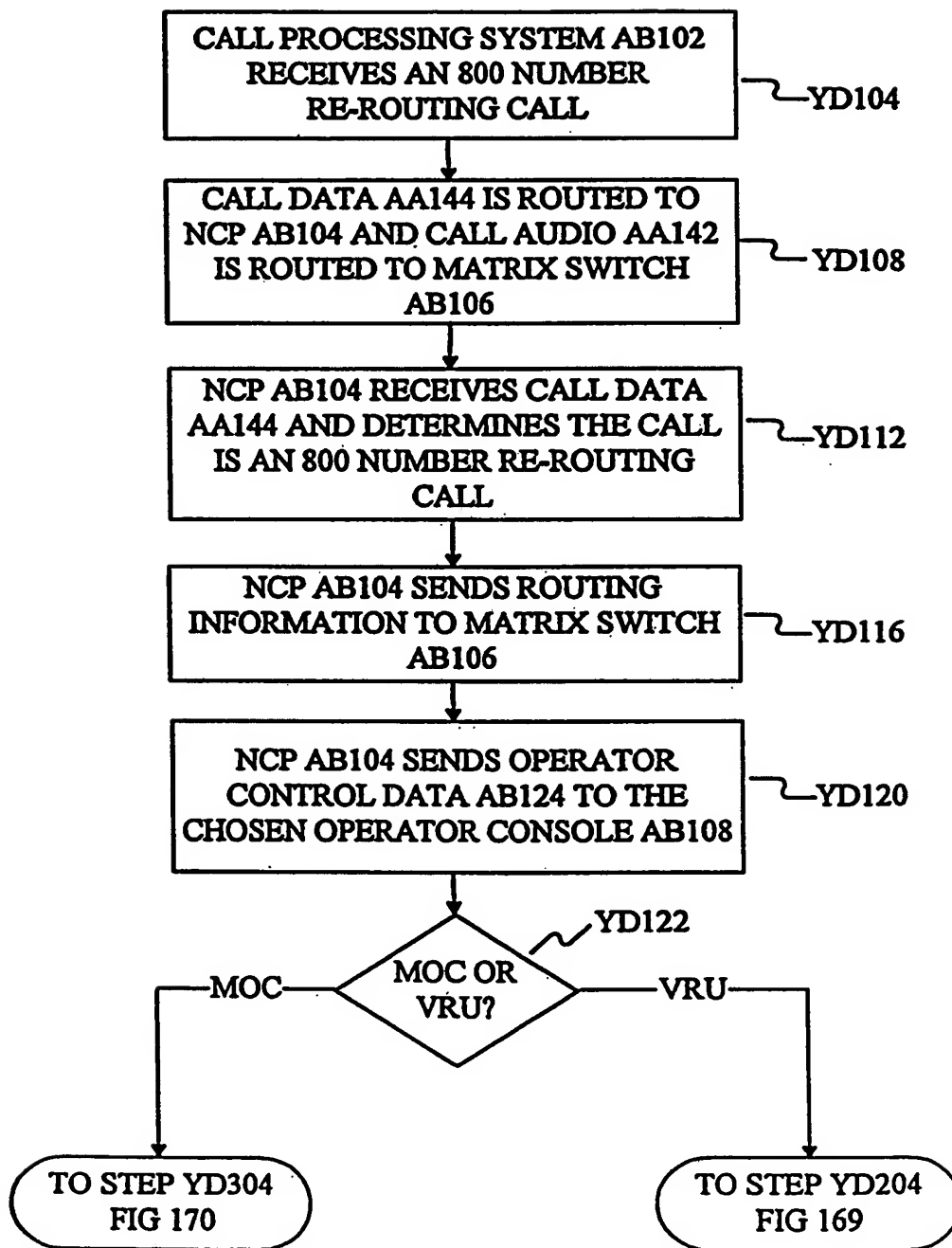


FIG 168

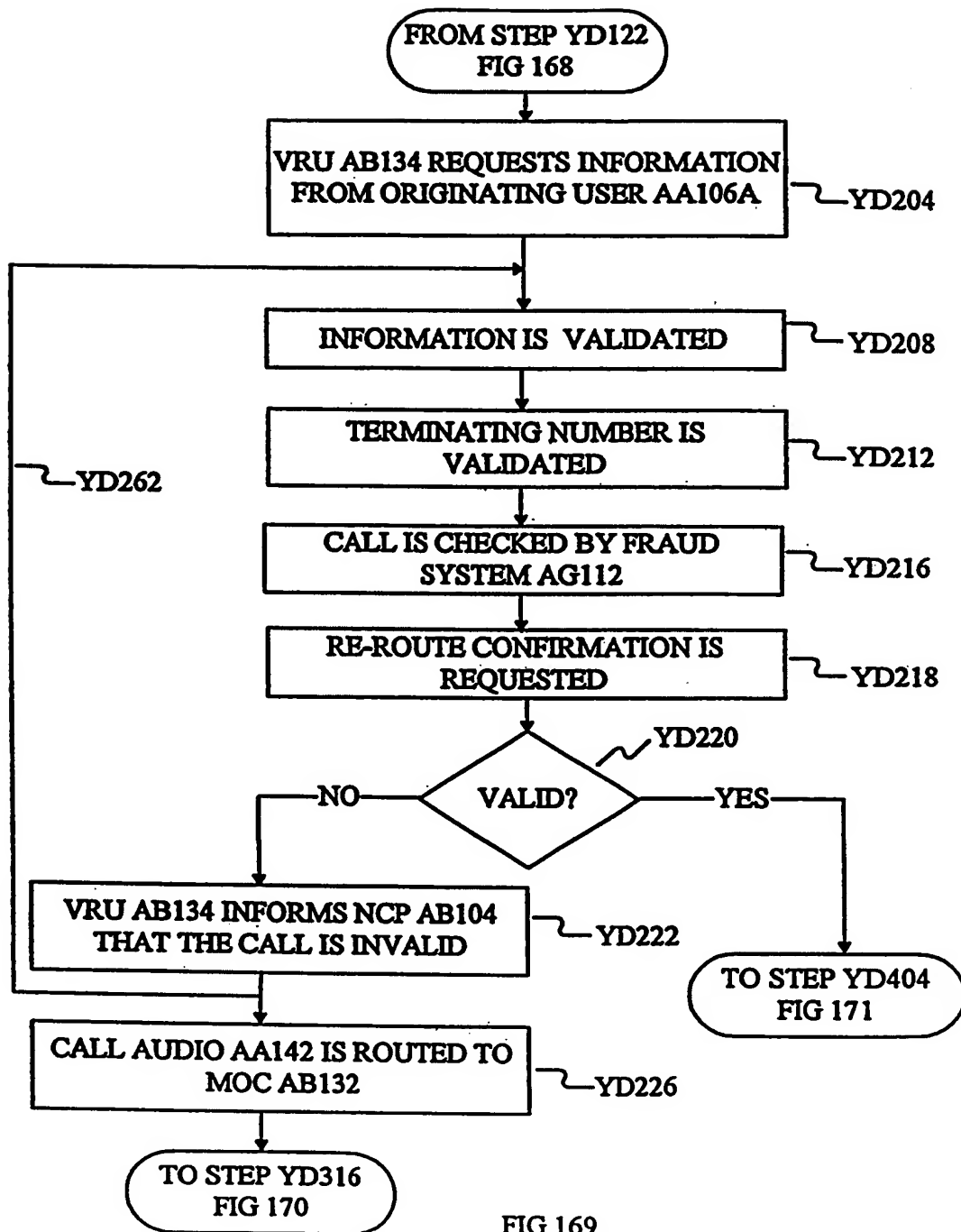


FIG 169

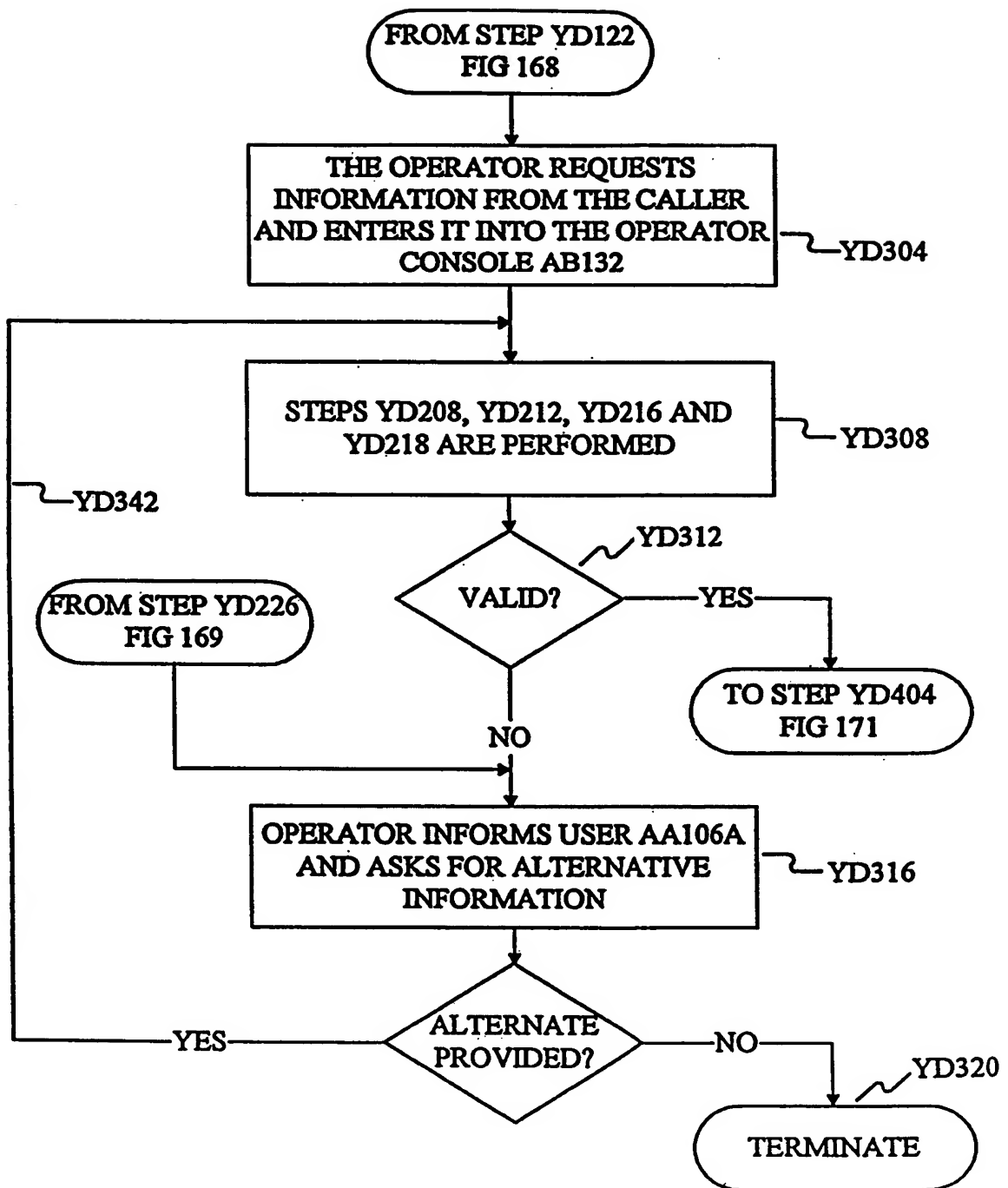


FIG 170

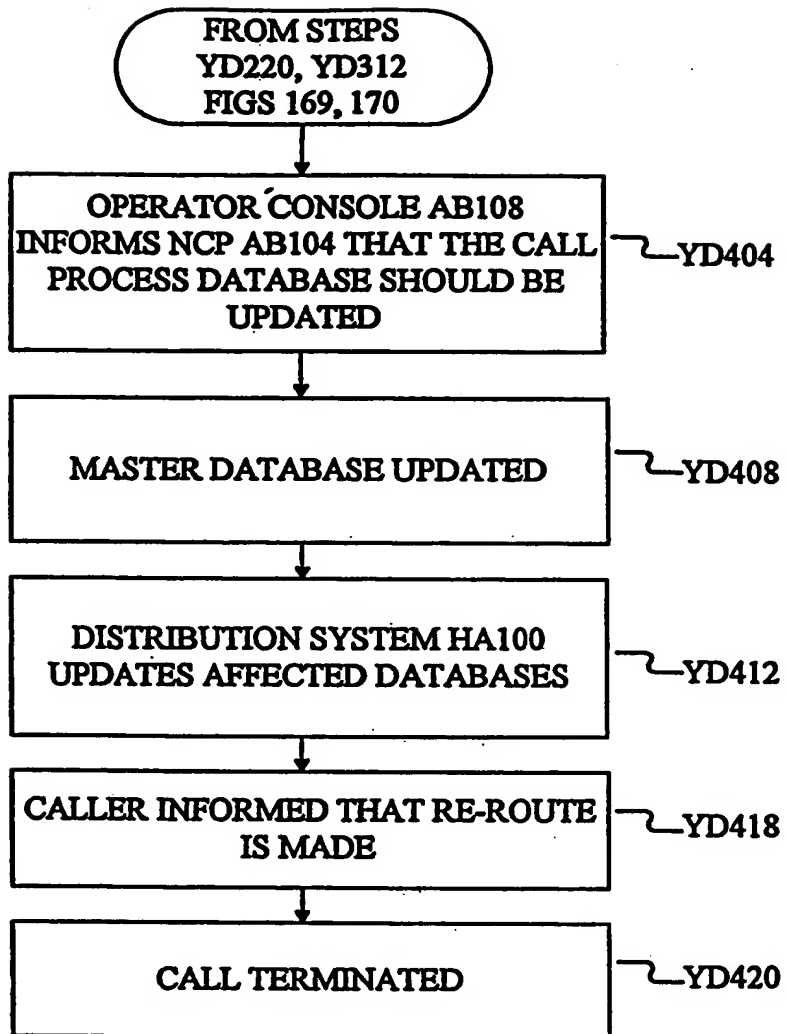


FIG 171

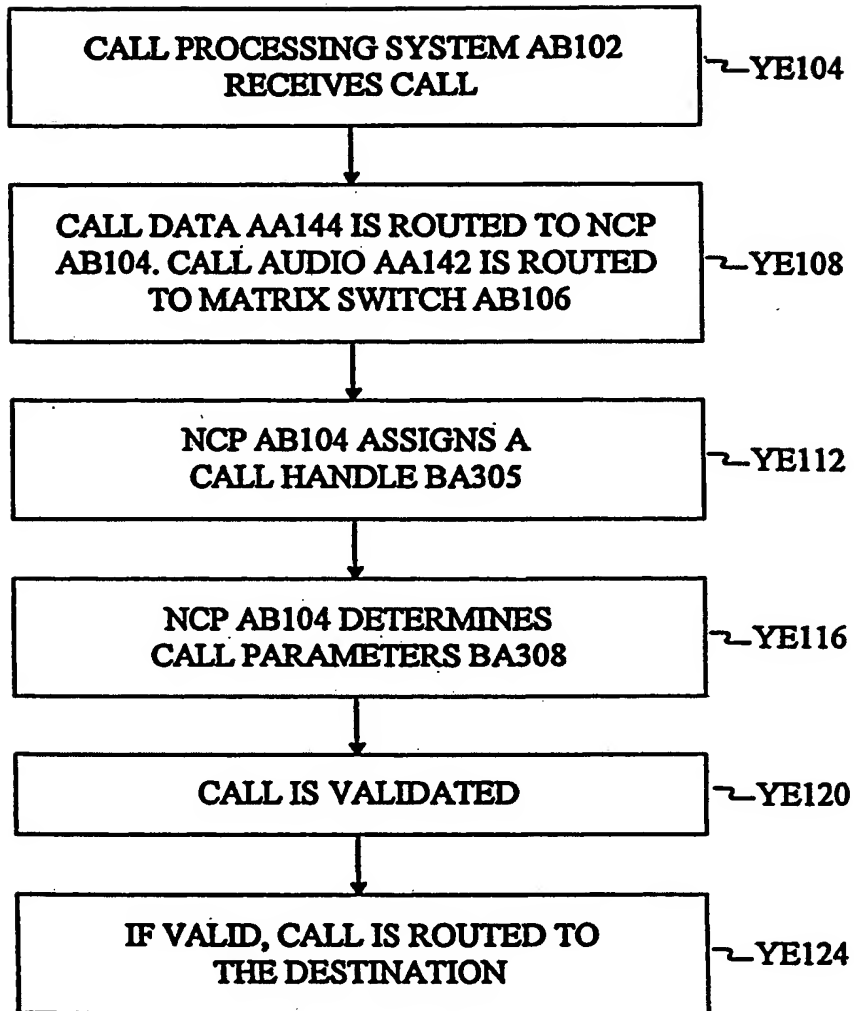


FIG 172

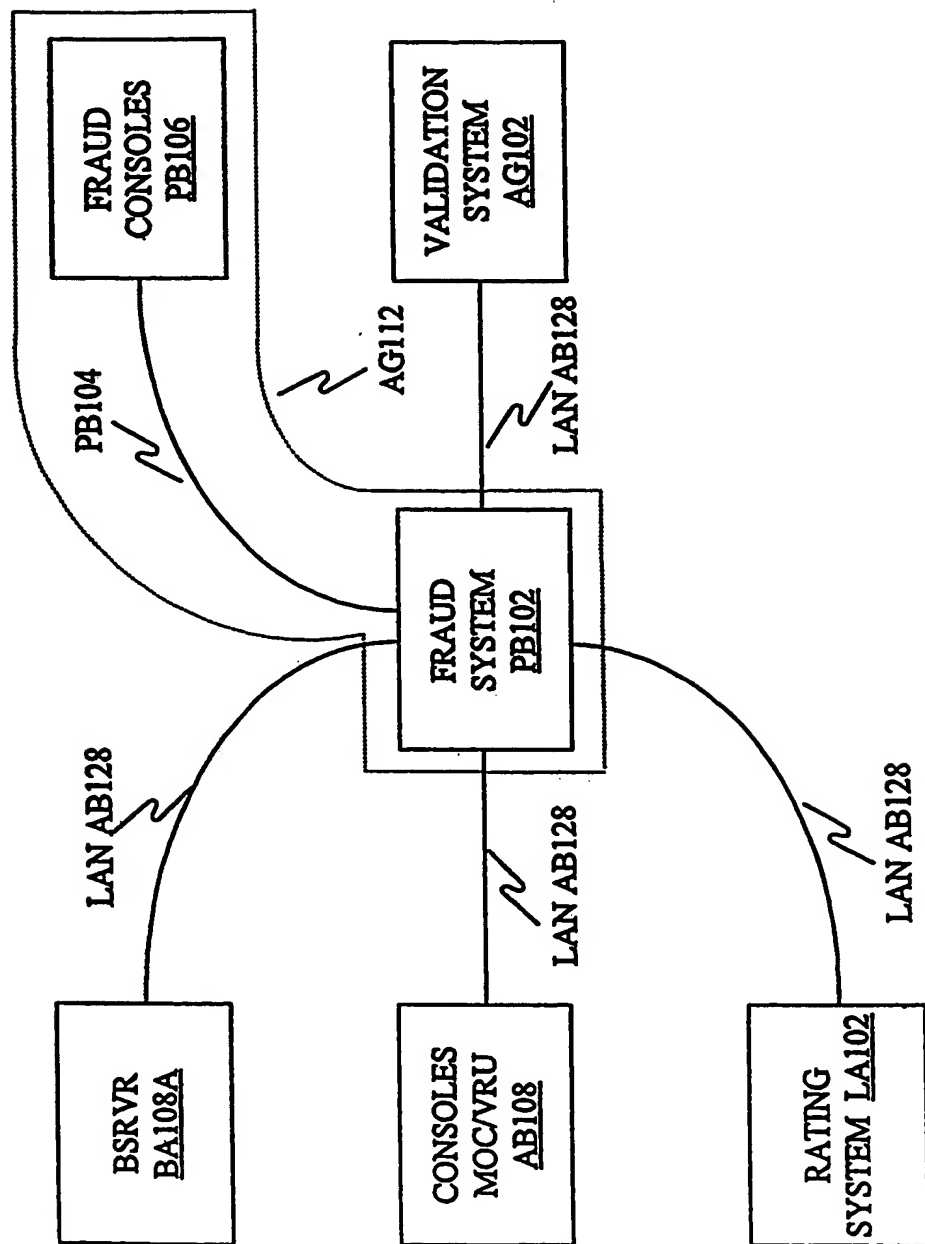


FIG 173

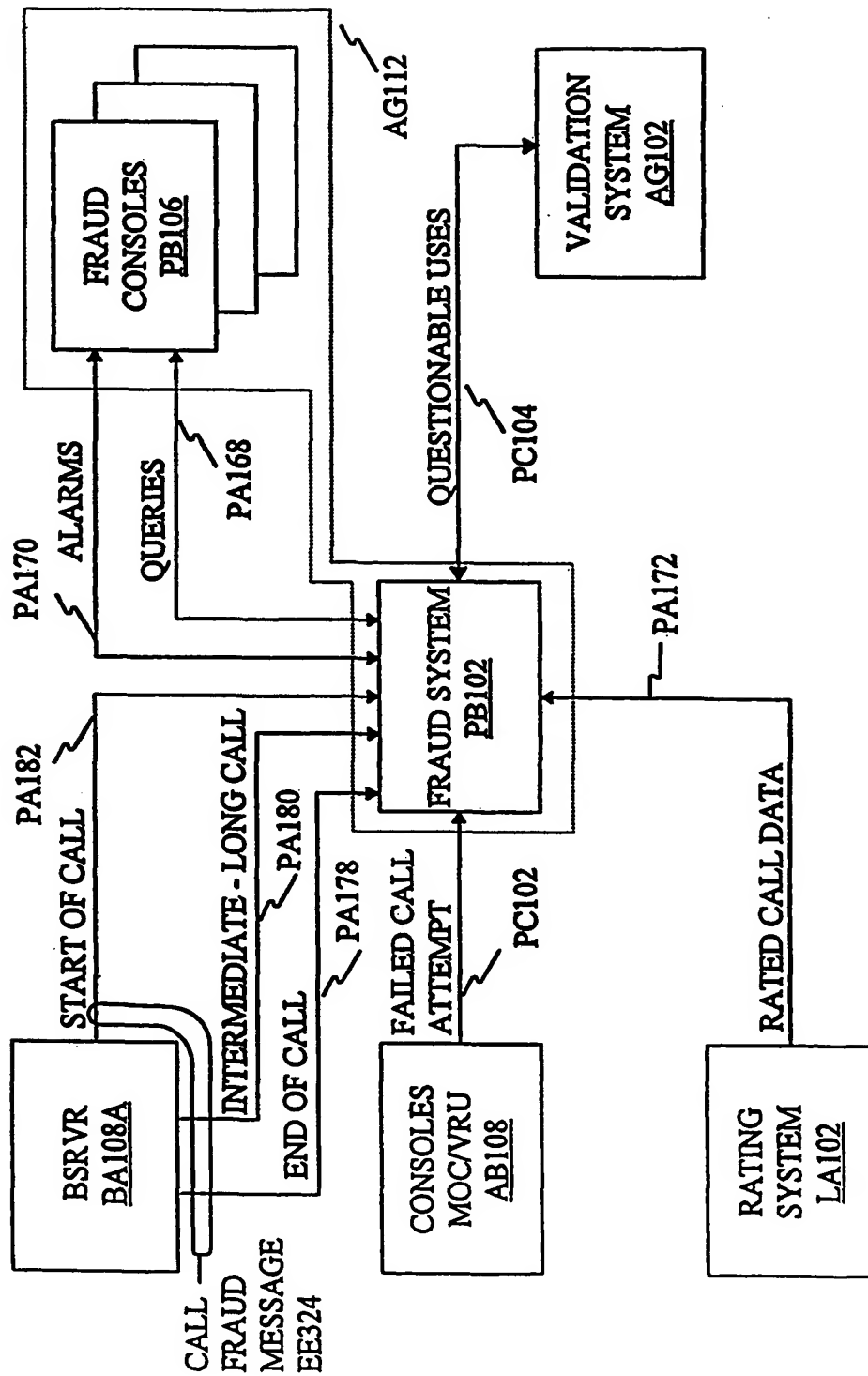


FIG 174

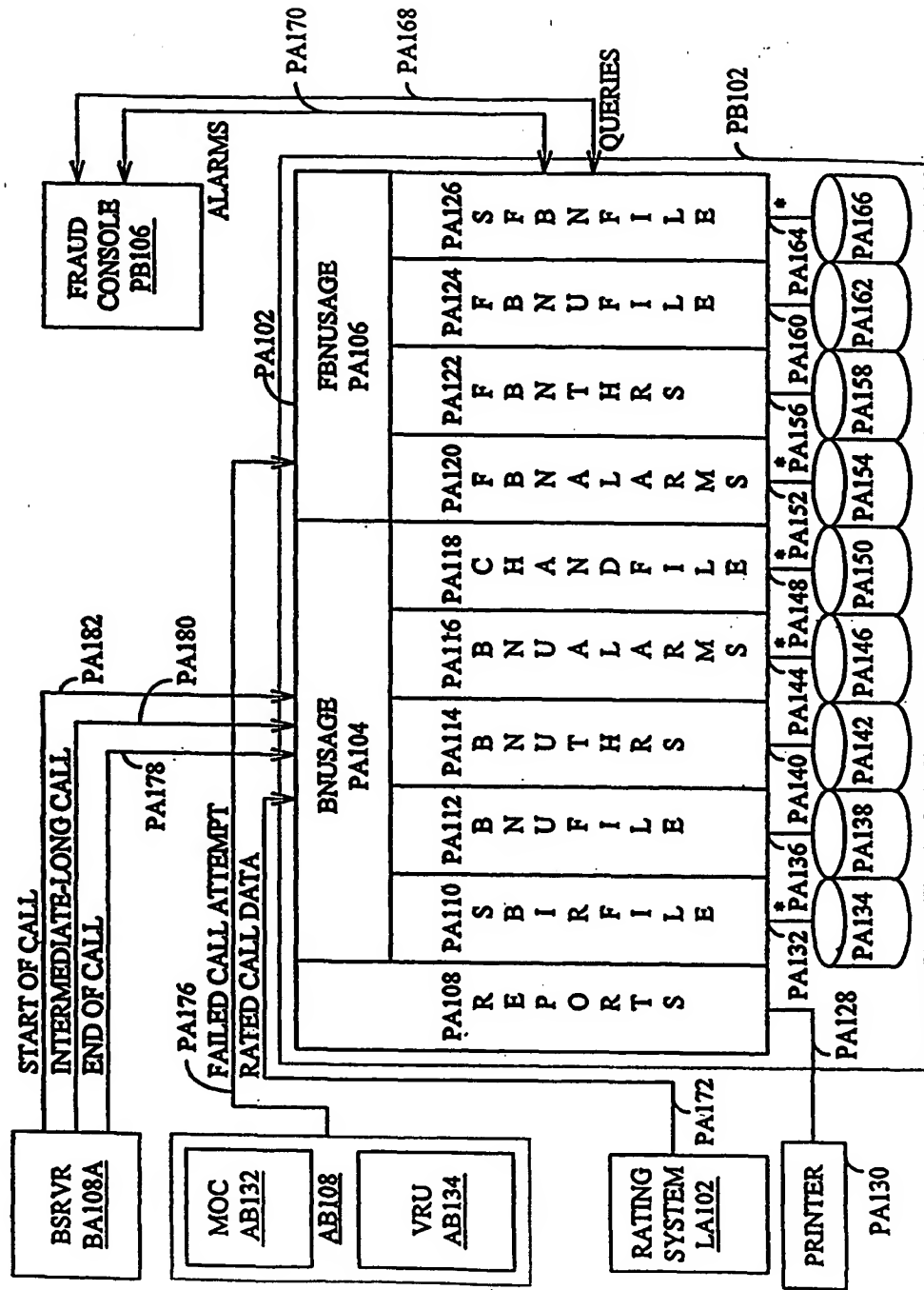


FIG 175



FIG 177

FIG 178

FIG 176

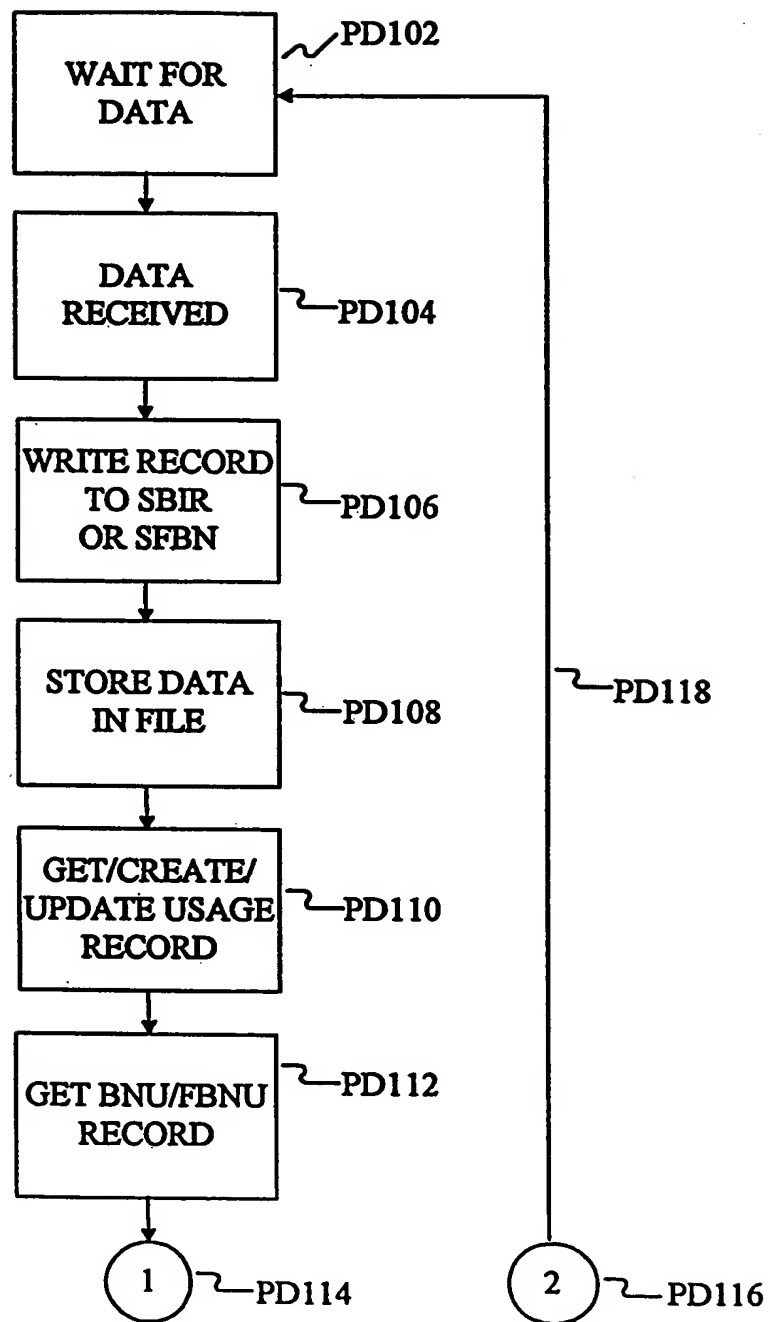


FIG 177

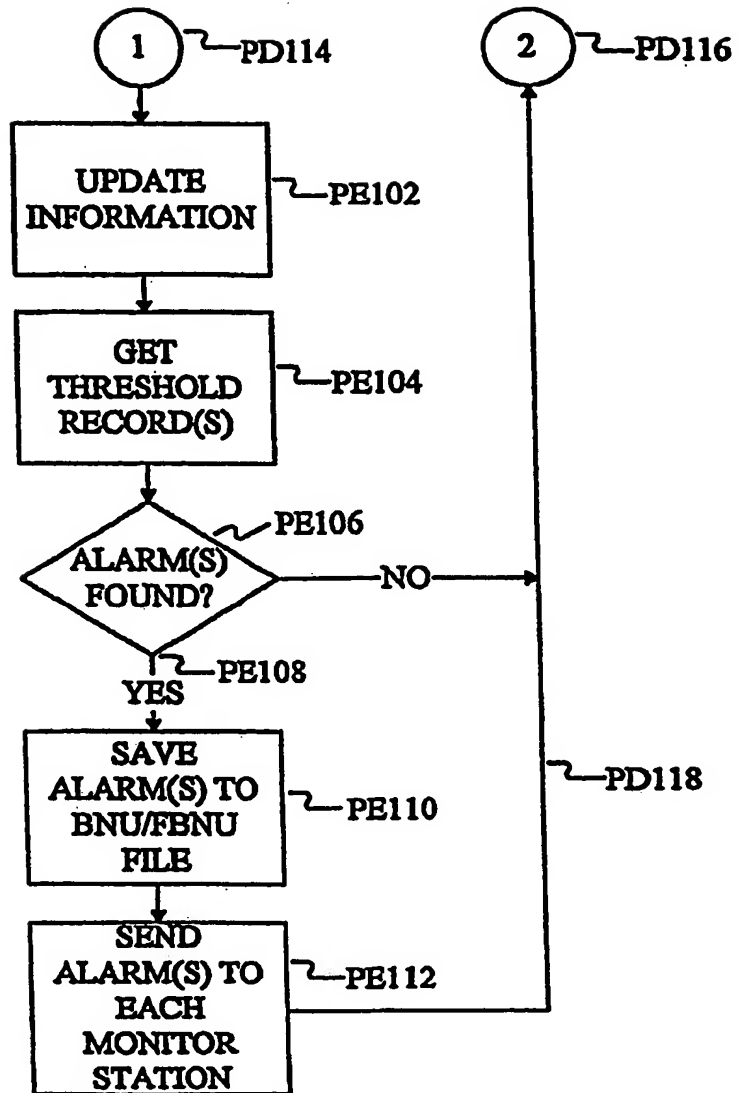


FIG 178

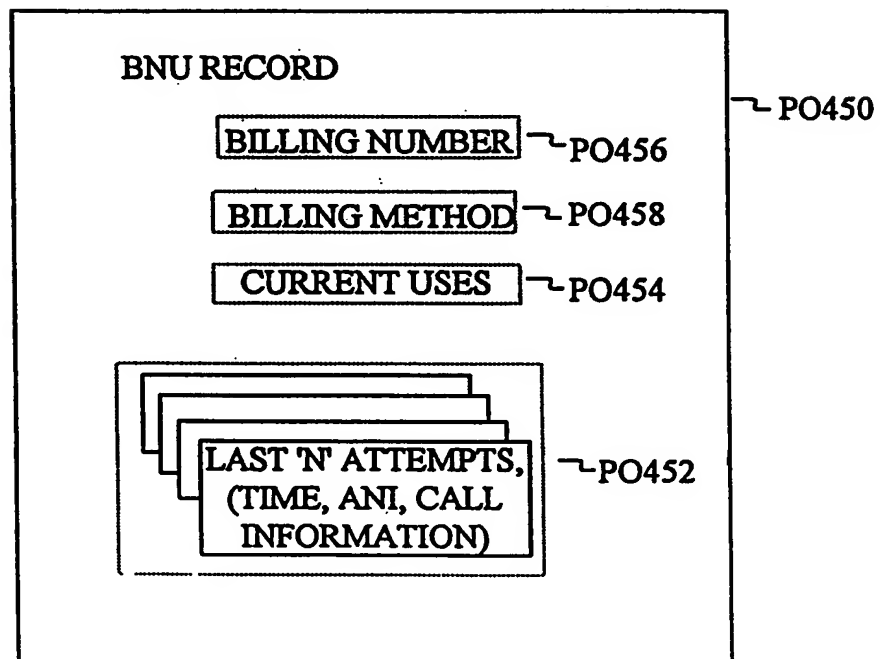
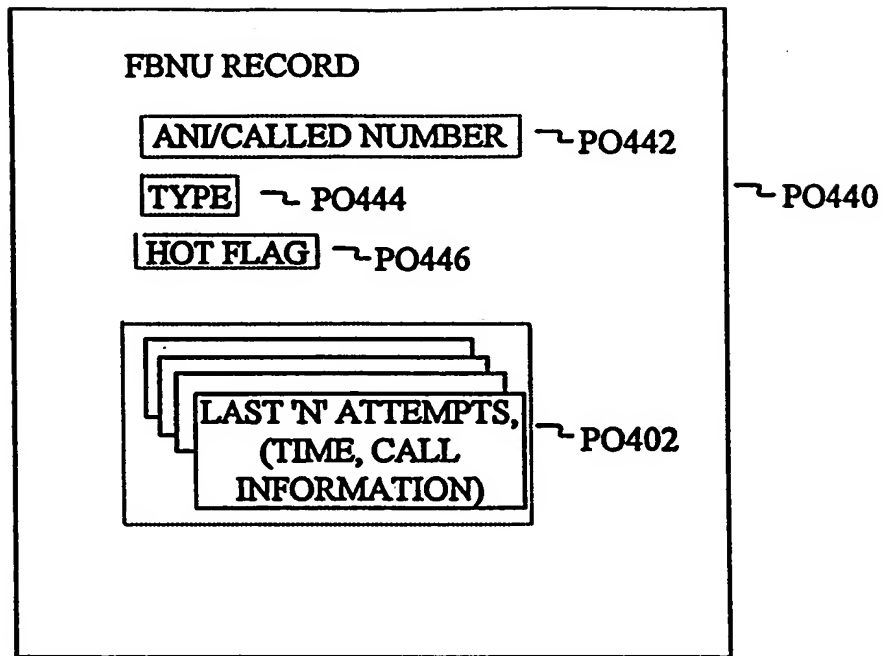


FIG 179

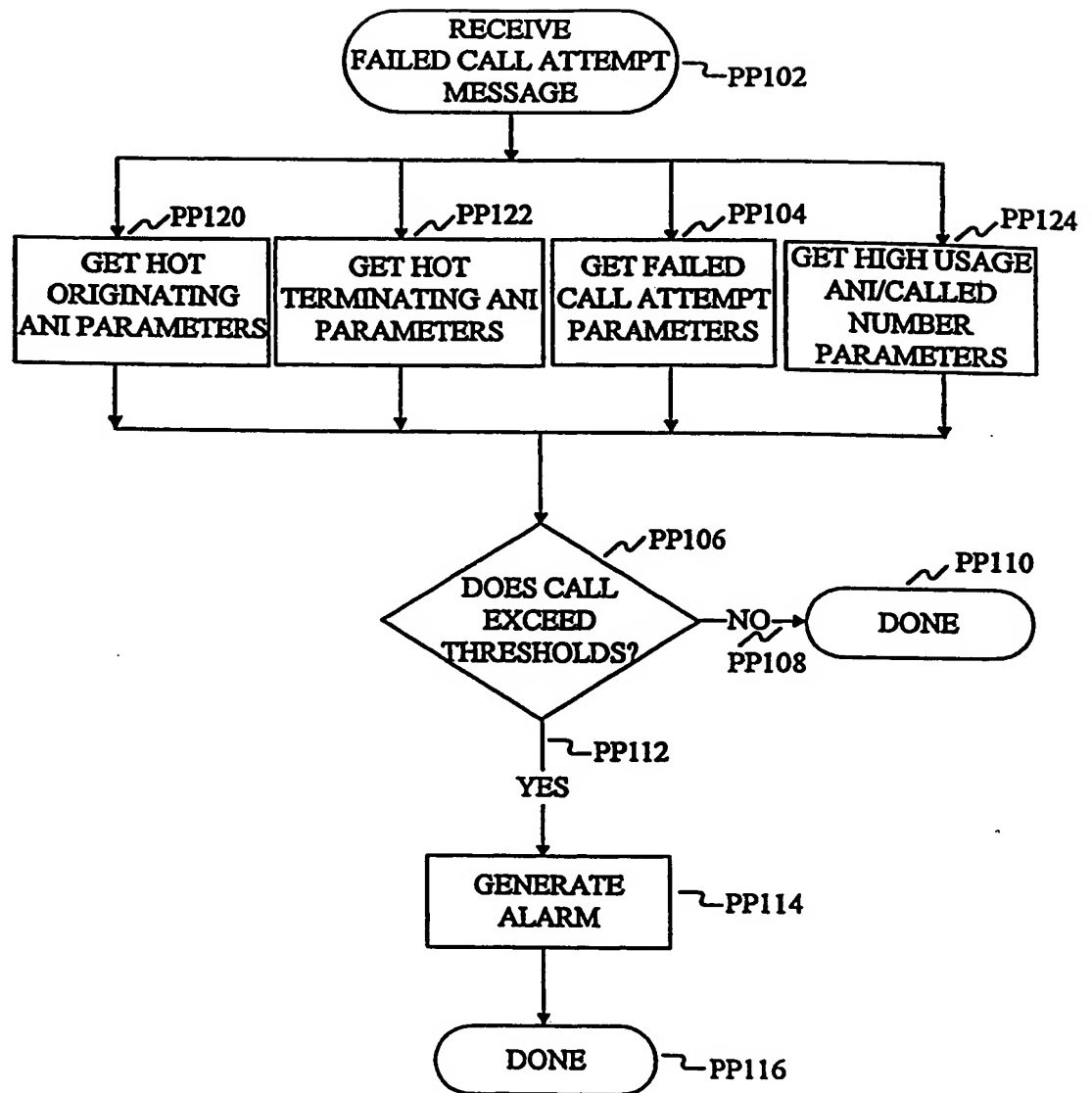


FIG 180

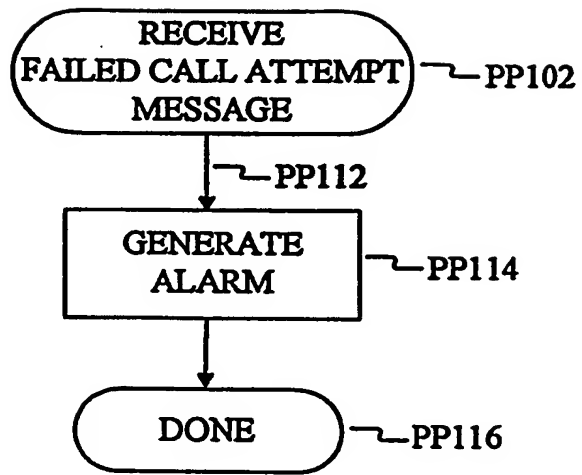


FIG 181

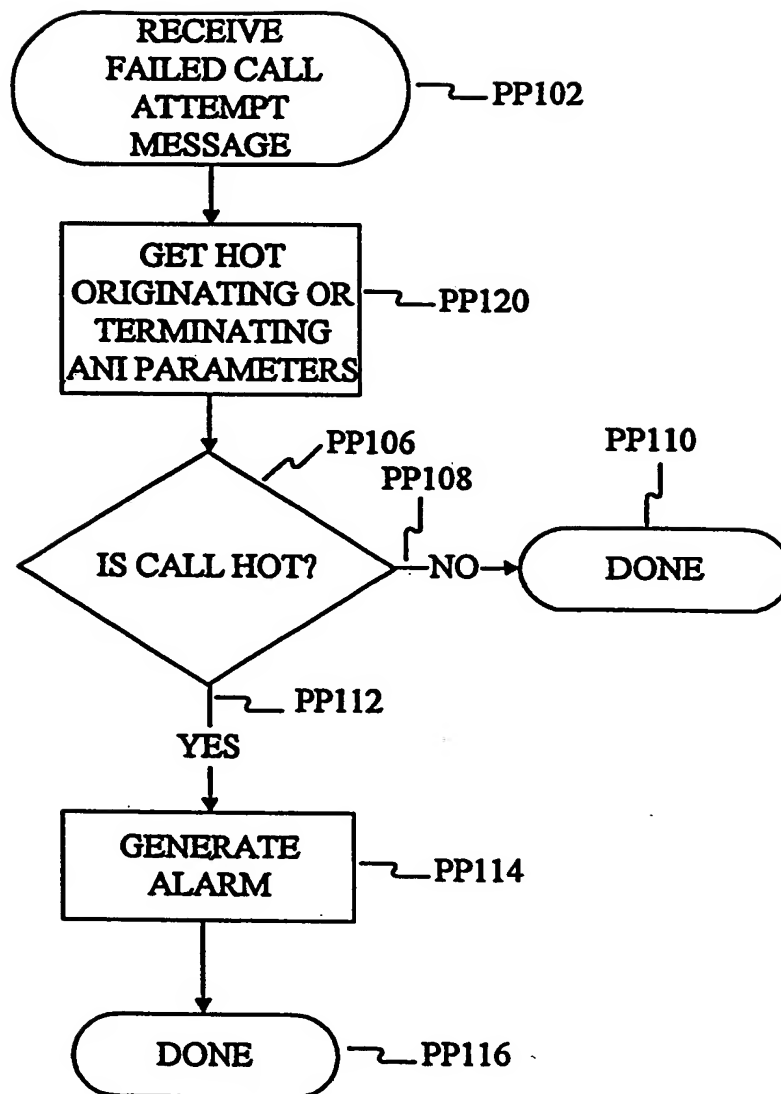


FIG 182

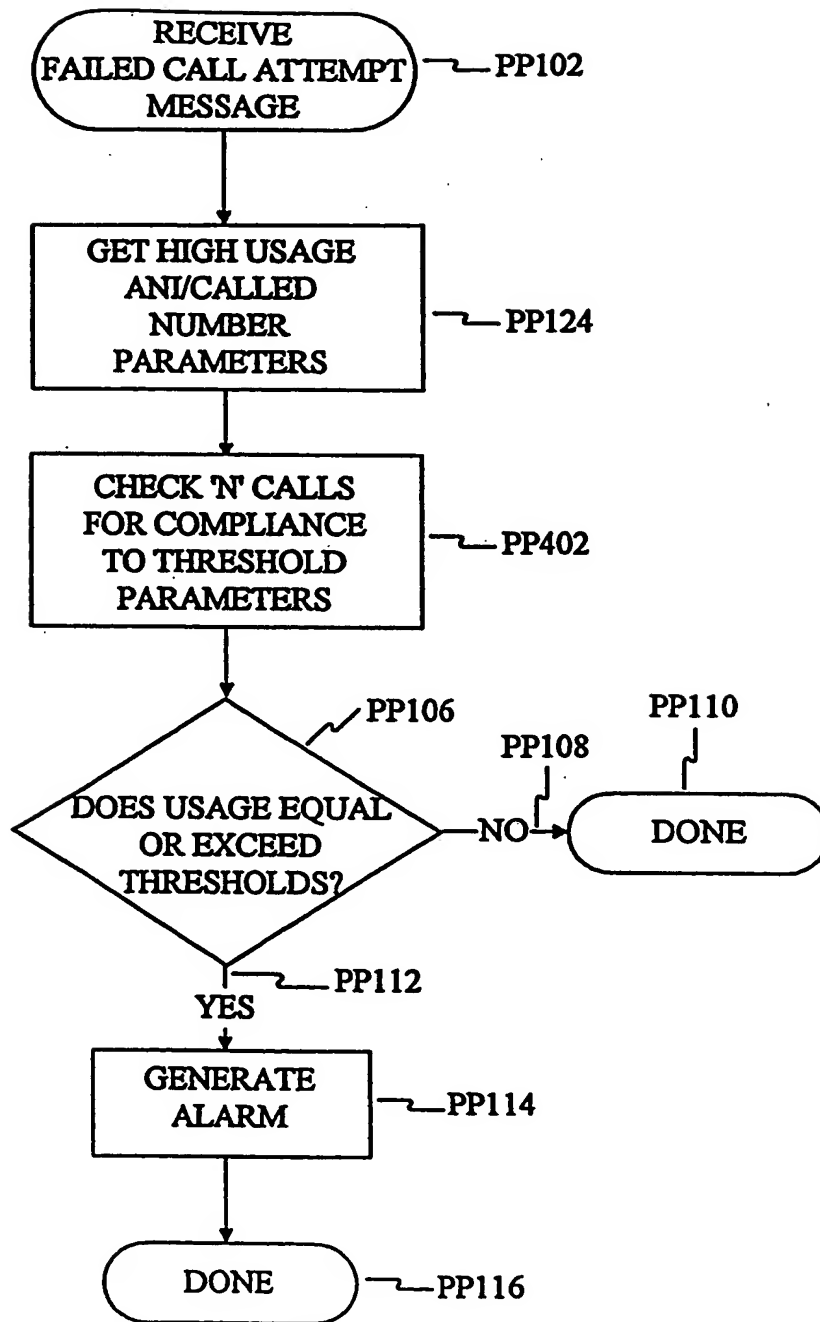


FIG 183

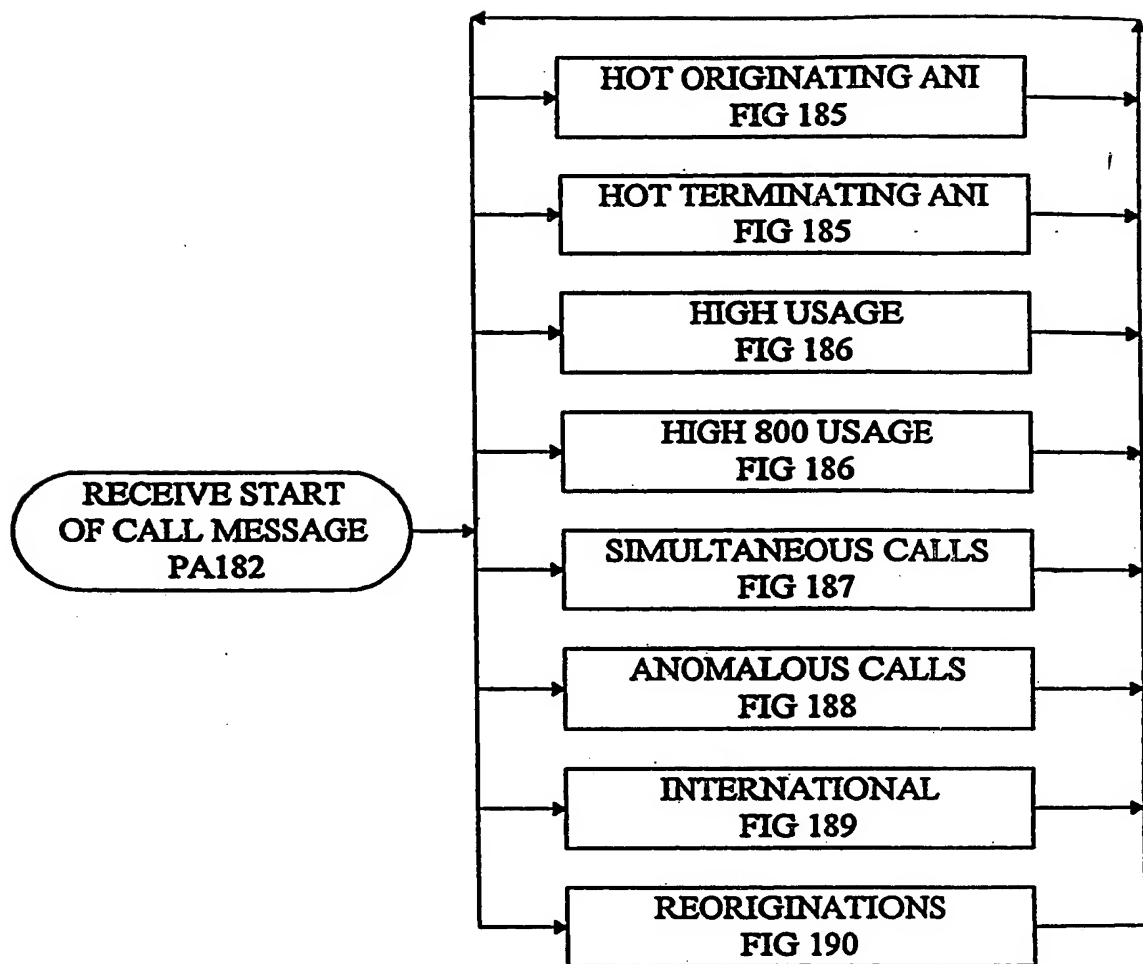


FIG 184

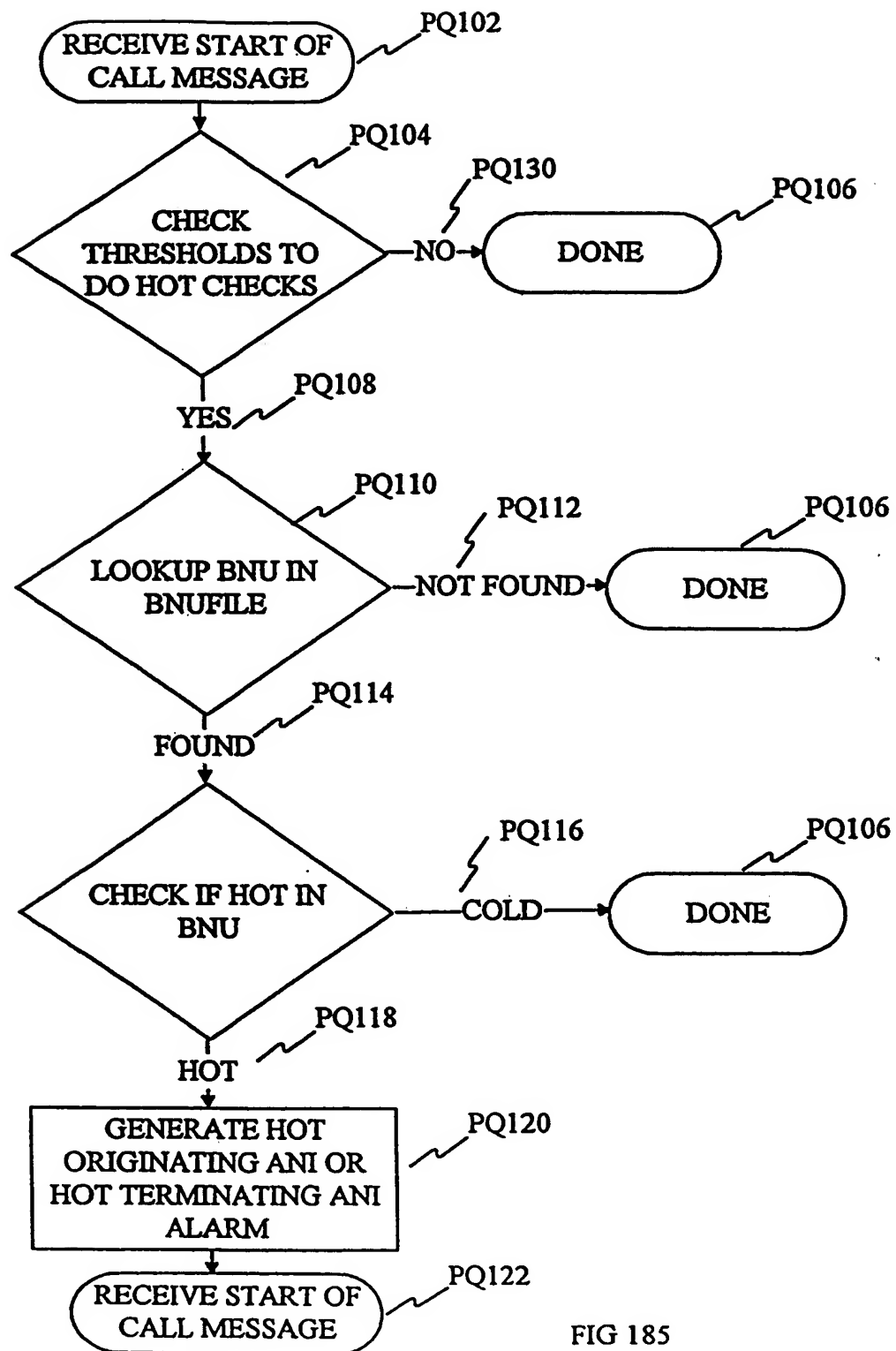


FIG 185

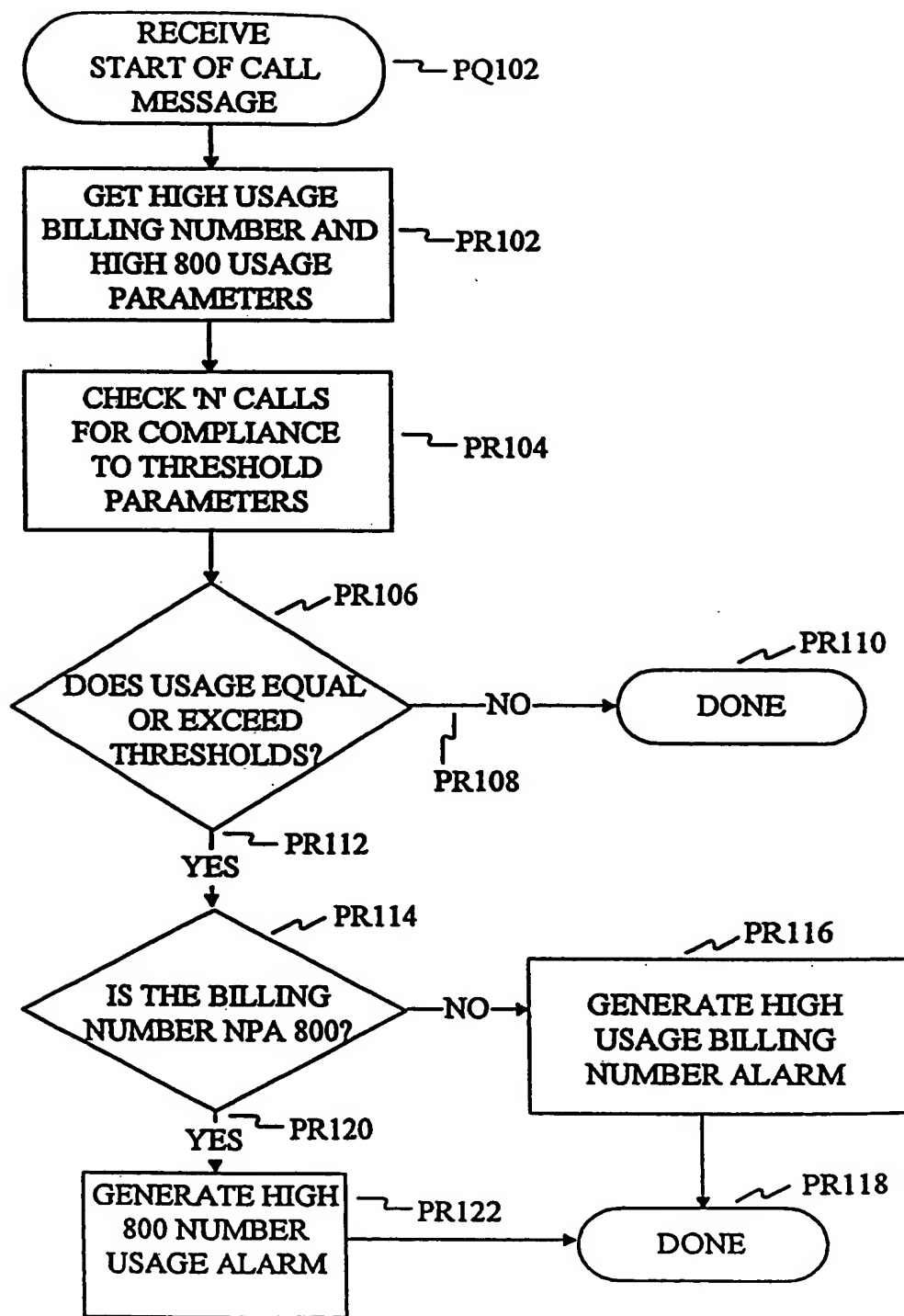


FIG 186

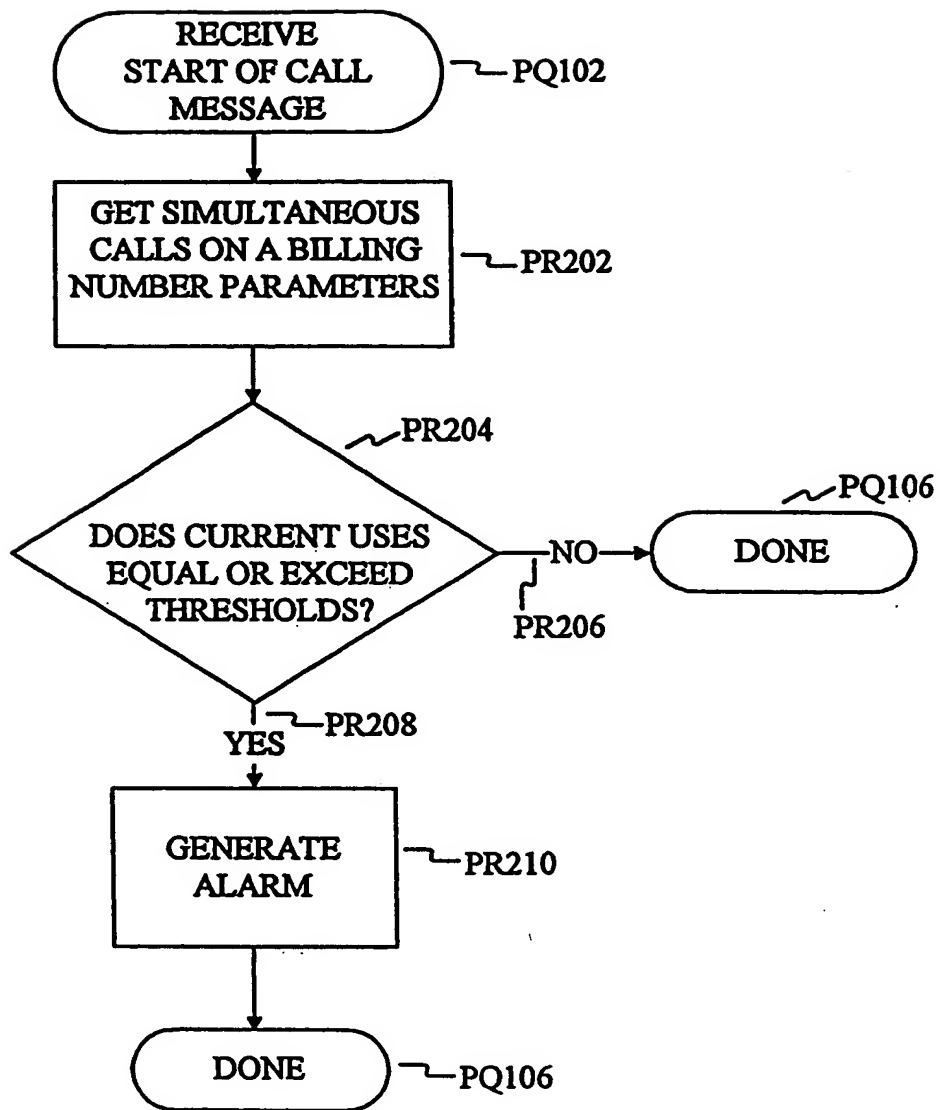


FIG 187

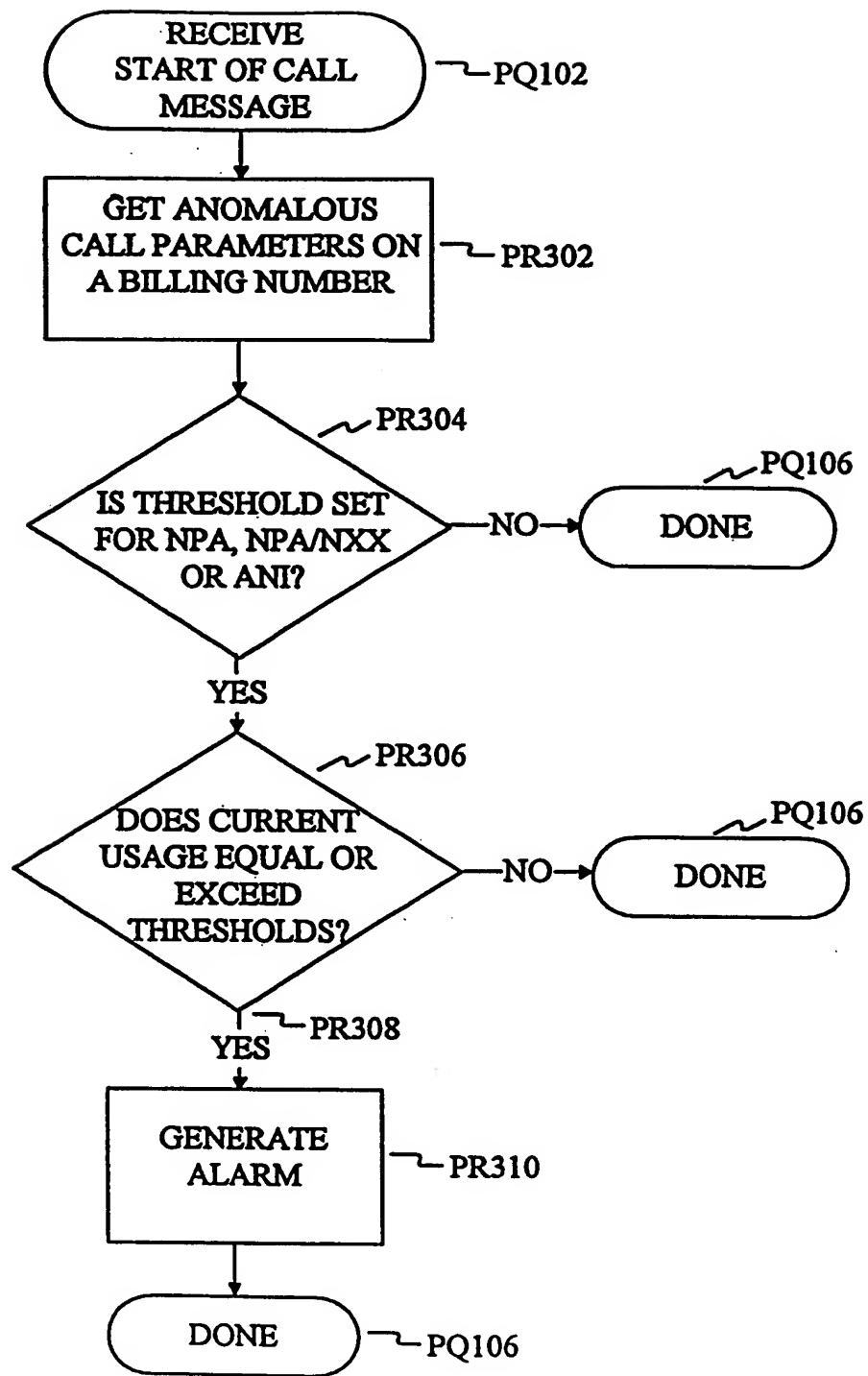


FIG 188

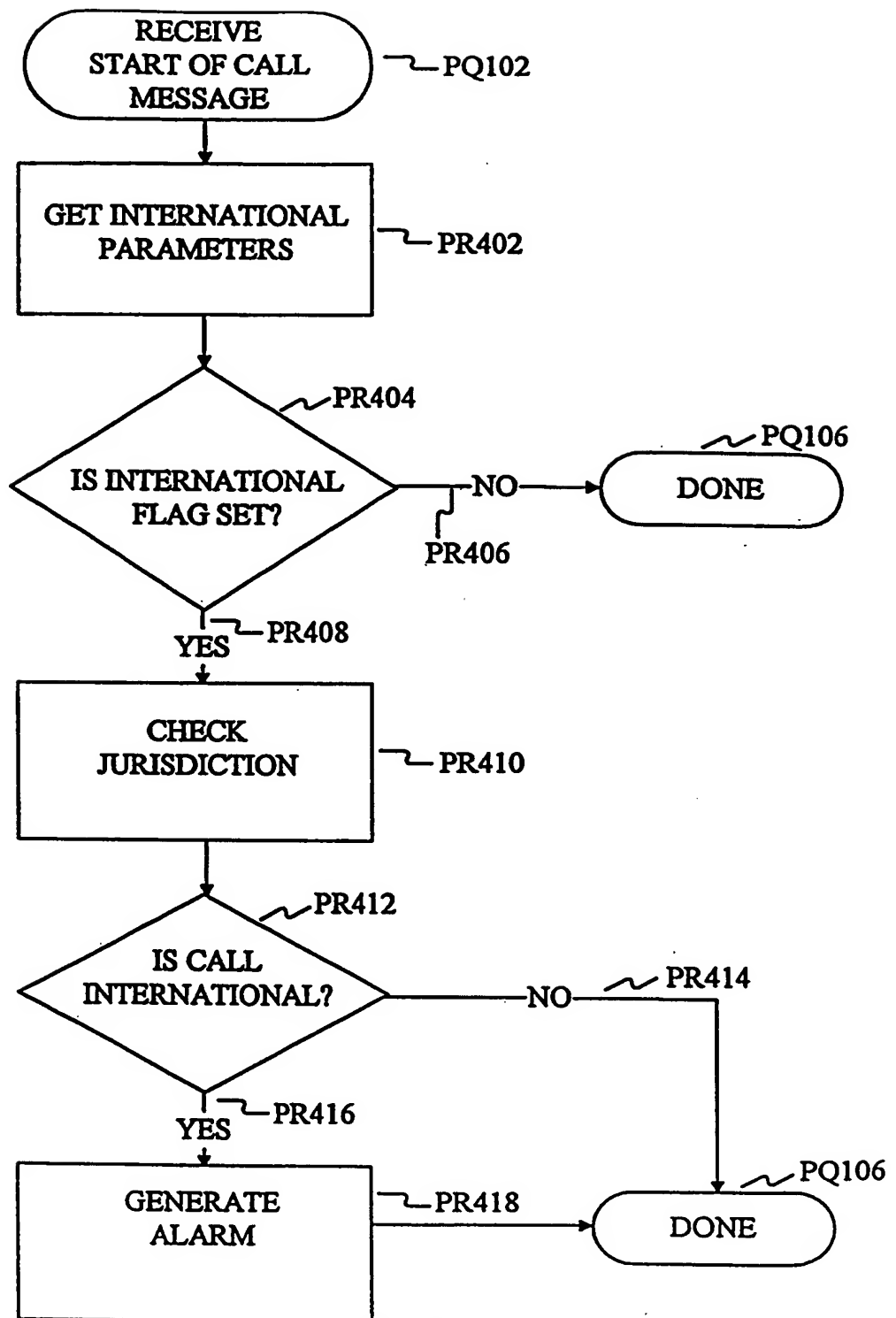


FIG 189

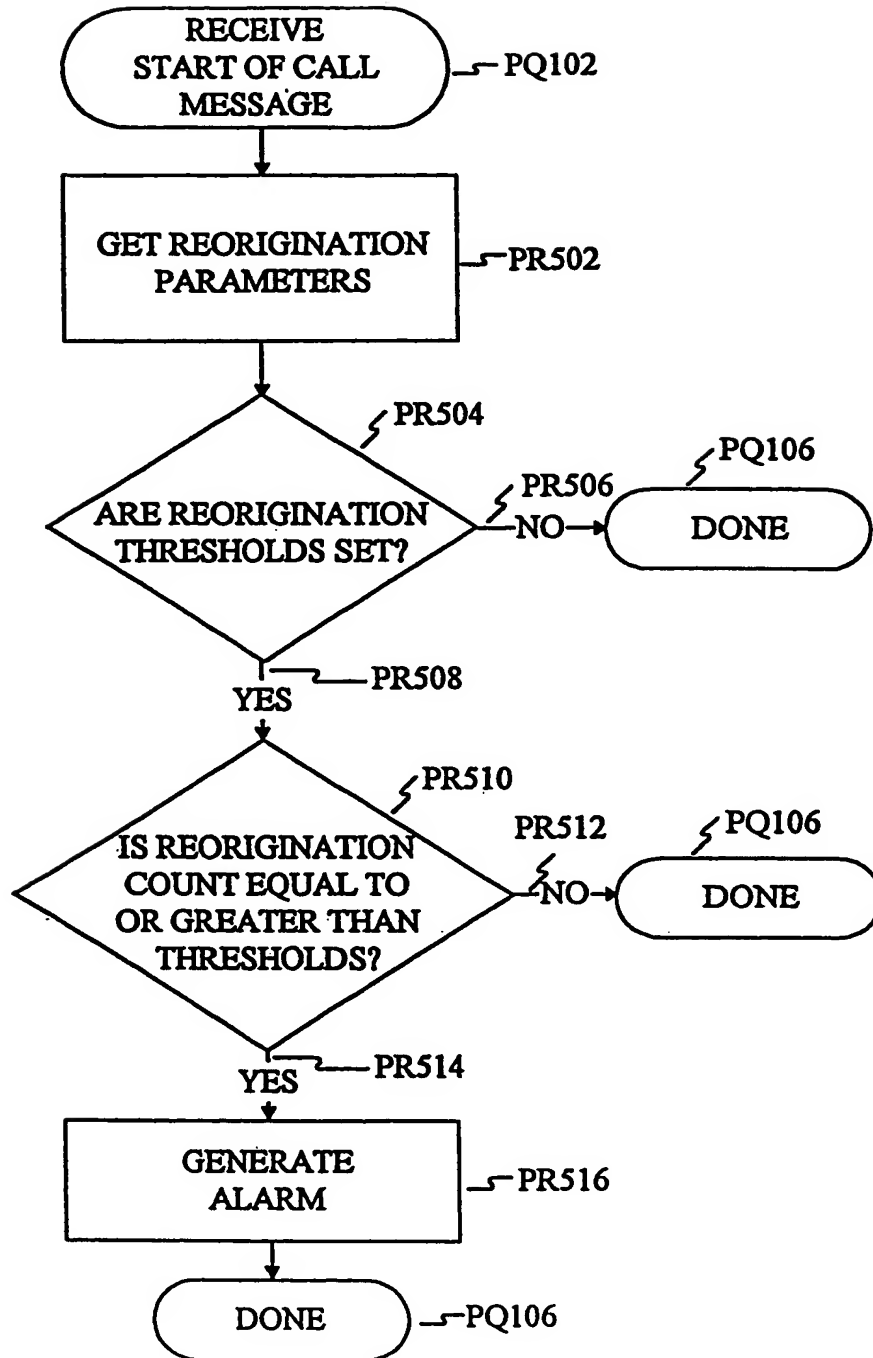


FIG 190

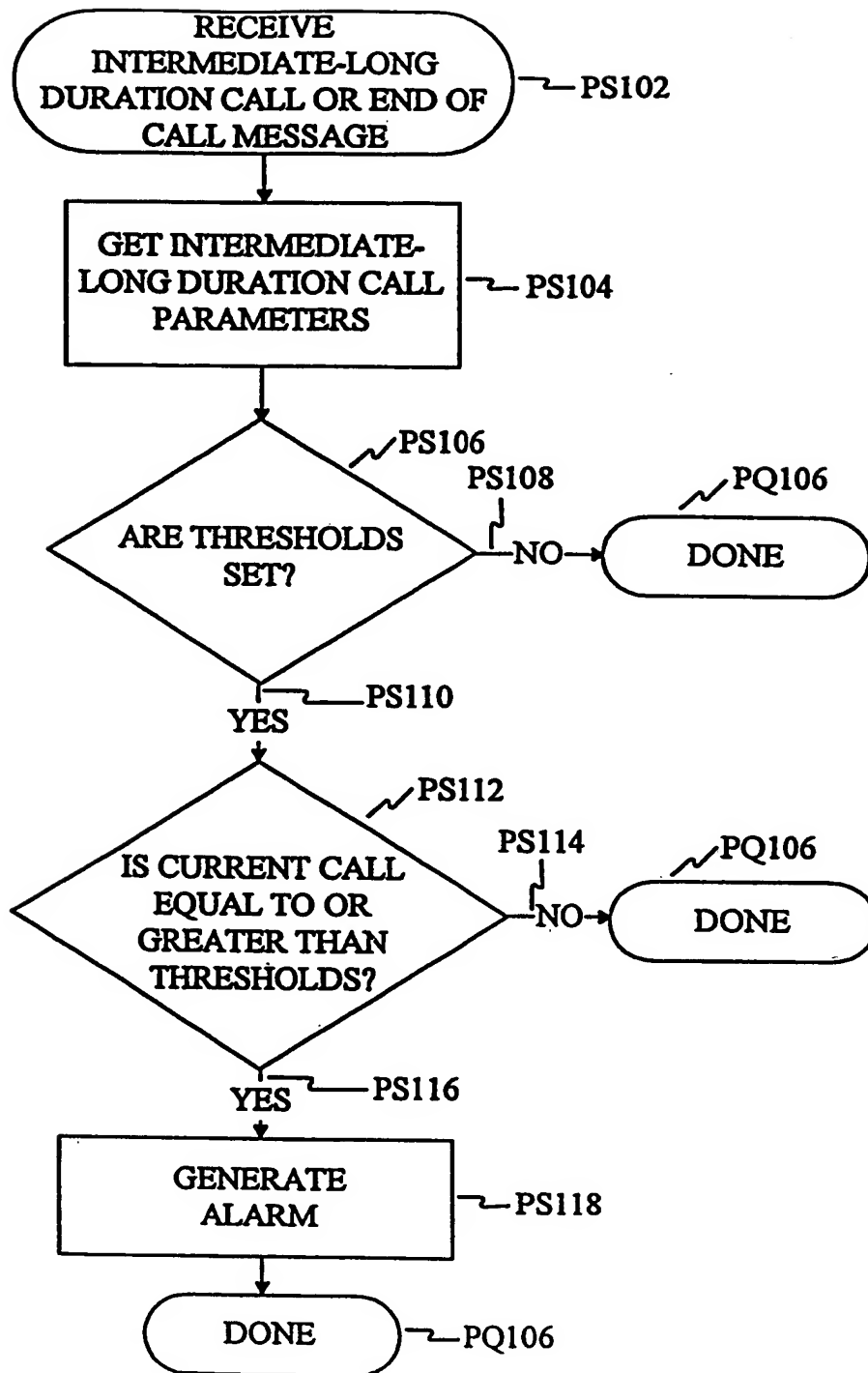


FIG 191

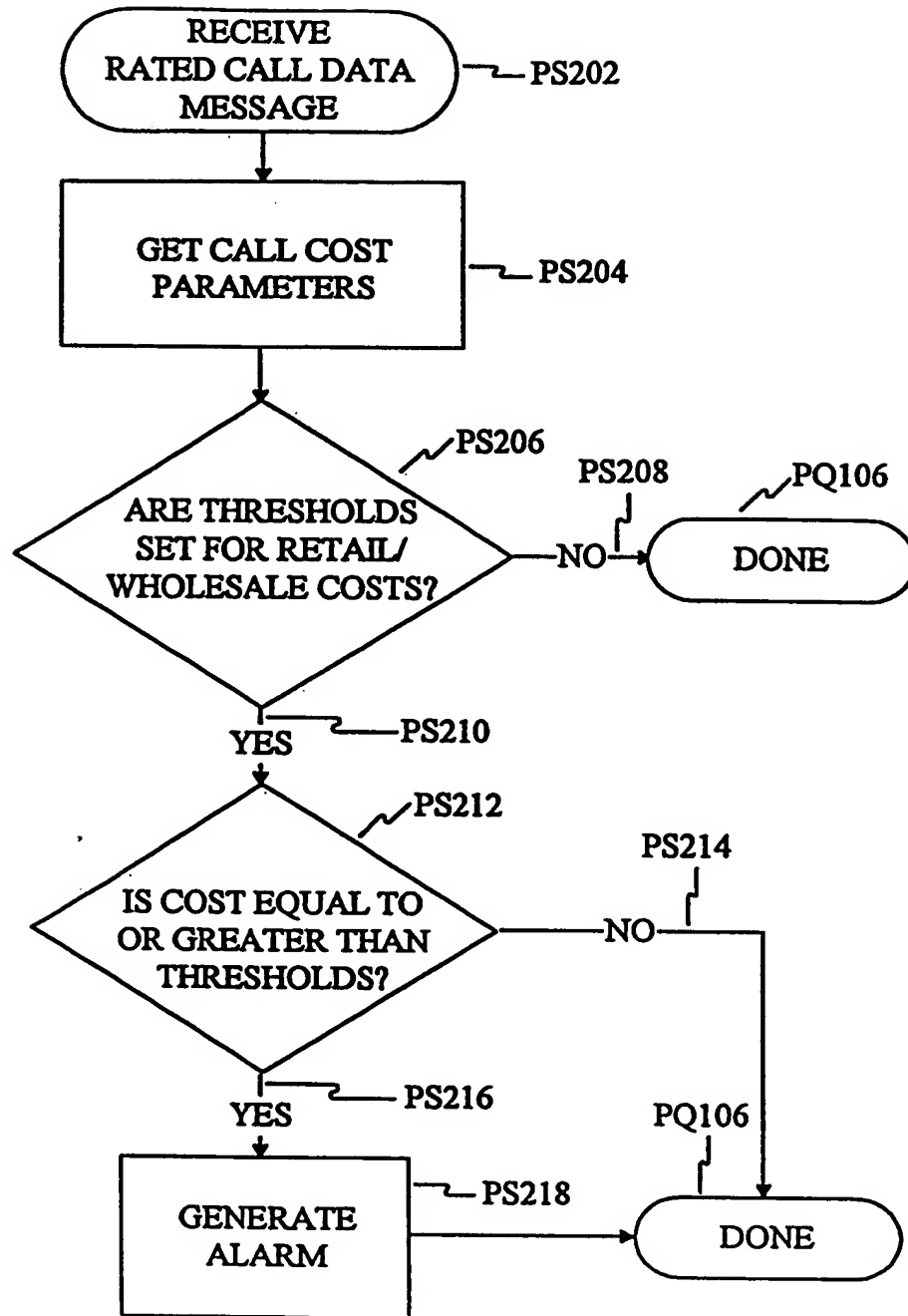


FIG 192

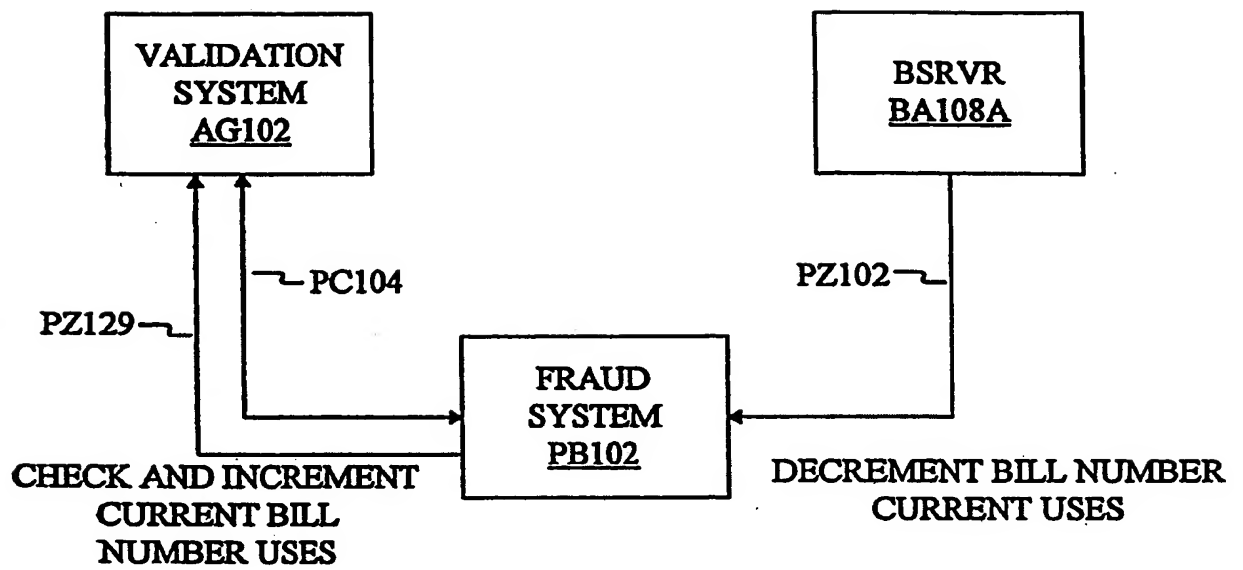


FIG 193

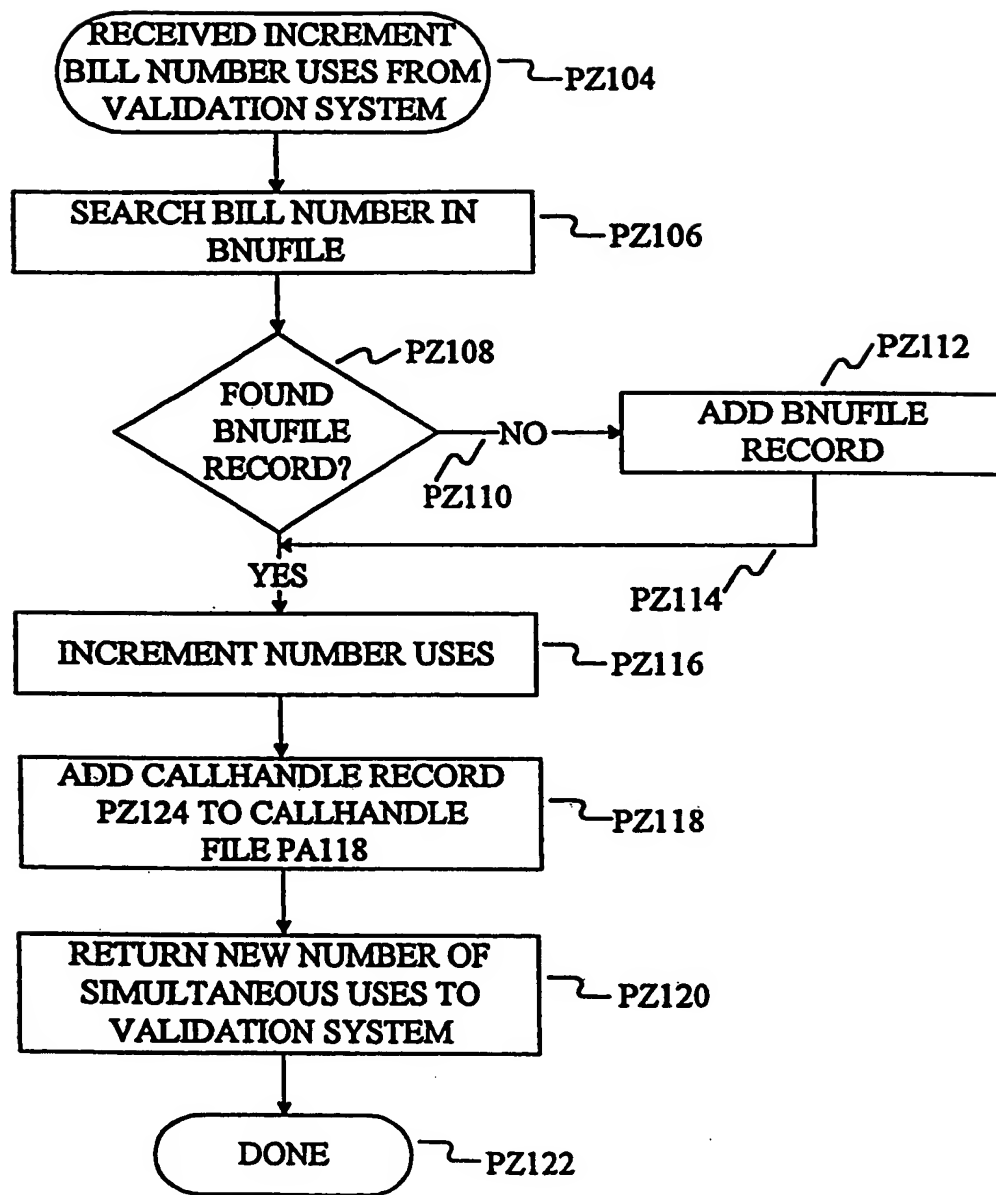


FIG 194

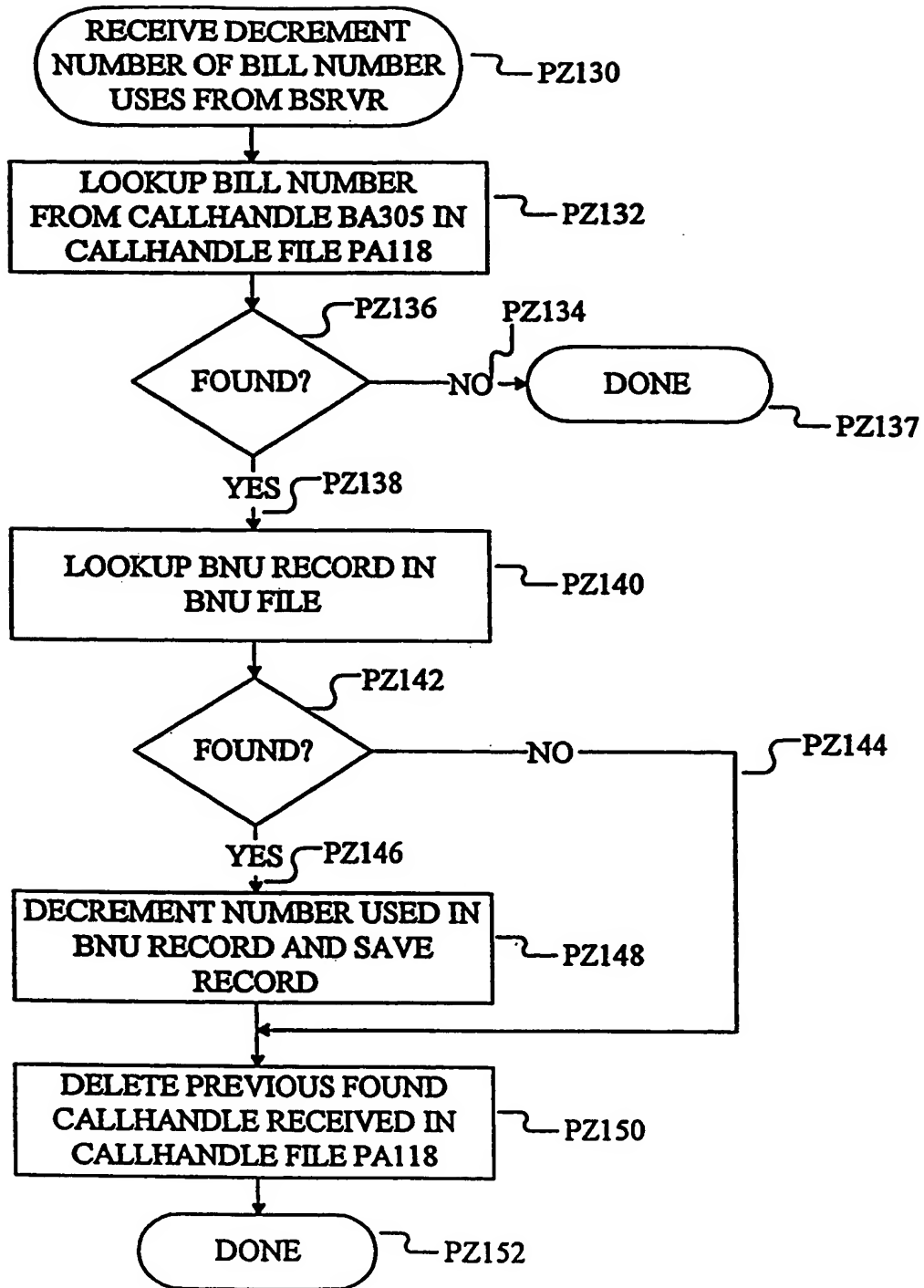


FIG 195

ALARM THRESHOLDS DETAIL INFO		
THRESHOLDS KEY 0		
TEXT DESCRIPTION:	ALARMS WILL BE GENERATED IF:	ALARMS DURMS TONES DURMS FREQHZ
0	OR MORE BILLING NUMBER HITS IN 0 MIN	0 0
0	OR MORE BILLING NUMBER HITS IN 0 MIN	0 0
0	OR MORE CALLS/BILLING NUMBER WITH DIFF ANI IN 0 MIN	0 0
0	OR MORE CALLS/BILLING NUMBER WITH DIFF NXX IN 0 MIN	0 0
0	OR MORE CALLS/BILLING NUMBER WITH DIFF NPA IN 0 MIN	0 0
0	OR MORE CURRENT ACTIVE CALLS WITH SAME BILLING NUMBER	0 0
	COMPLETED CALL EXCEEDED 0 MIN	0 0
[]	CALL IS INTERNATIONAL	0 0
[]	CURRENT ACTIVE CALL EXCEEDS BILLING SERVER WARNING LEVEL	0 0
	COMPLETED CALL EXCEEDED WHOLESALE COST OF DOLLARS	0 0
	COMPLETED CALL EXCEEDED RETAIL COST OF DOLLARS	0 0
	REORIGINATIONS MADE EXCEEDED 0	0 0
[]	ORIGINATING ANI IS HOT	0 0
[]	CALLED NUMBER IS HOT	0 0
[F1 INSERT]	[F2 SEARCH]	[F3 DELETE] [ESC CANCEL]

FIG 196

ALARM THRESHOLDS DETAIL INFO				
THRESHOLDS KEY 0				
TEXT DESCRIPTION:			ALARMS DURMS	TONES FRQHZ
ALARMS WILL BE GENERATED IF:				
0	OR MORE FBNS ON ORIG NUMBER IN	0	MIN	0
0	OR MORE FBNS ON ORIG NUMBER IN	0	MIN	0
0	OR MORE FBNS ON TERM NUMBER IN	0	MIN	0
0	OR MORE FBNS ON TERM NUMBER IN	0	MIN	0
[]	ORIG NUMBER IS HOT			0
[]	TERM NUMBER IS HOT			0
[F1 INSERT]	[F2 SEARCH]	[F3 DELETE]	[ESC CANCEL]	

FIG 196A

BILLING NUMBER DETAIL INFO

BILLING METHOD: 800 NUMBER

BILLING NUMBER:

THRESHOLDS KEY: 0

[] DON'T USE GLOBAL DEFAULT THRESHS

CURRENT USES:

[F1 INSERT] [F2 SEARCH] [F3 DELETE] [ESC CANCEL]

FIG 197

[F1] SEARCH BIRS FROM TIME	06/15/93	15:00:00
[F2] SEARCH BIRS FROM BIRID	0	
BIRID	LINK CONNECT TIME	
[ESC CANCEL]		

FIG 198

TIME		TUE JUNE 15 09:56:01		FRAUD MONITOR		BNU ALARM STATUS		LOGGED IN		VER 01.01		TOT RCVD 23551	
ALARM DETAIL INFO													
ALARM TYPE:		FRAUD SHORT BIR INFO											
BILL METHOD:		BIRID		402666445		JUN 14 21:25:33		0					
BILLING NUM:		LINKUSA CONNECT TIME		6/14 20:46:22									
39 MIN EXCEEDI		CALL DURATION		0:39:18		BIRID: [402666445]		ESC					
		BILL METHOD		1111111				1111111					
		BILL NUMBER		2014551111				2014551111					
		ORIGINATING ANI		7125551111				7125551111					
		CALLED NUMBER		8008641486				8008641486				[BNU THRS]	
		ACCESS NUMBER		INTERSTATE INTERLATA				1111					
		CALL JUR		5				300					
		CONSOLE NUMBER		YES				YES					
		REORIGINATIONS MADE		5.85				6.30					
		GREENWICH MIN OFFSET		6:14 21:46:38				UTE:OFF]=[EXIT]=					
		DAYLIGHT OBSERVED		NO				<ESC> CANCEL					
		WHOLESALE COST											
		RETAIL COST											
		THEIR CONNECT TIME											
		CALL ACTIVE											
[BNU ALRMS] [B													
ALARM TYPE													
FBN ORIG USAGE													
FAILED BILL NU													
FBN HOT TERM													
FBN HOT ORIG													
=[FBN ALRMS]=[

FIG 200

ALARM DETAIL INFO			
ALARM TYPE:	CALL DURATION	ALARM TIME	JUN 14 21:25:33
BILL METHOD:	ESC	THRESHS KEY	0
BILLING NUM:	8008614851234567		
39 MIN EXCEEDING THRESH OF 30 MIN		BIRID:	[402666445]
<ESC> CANCEL			

FIG 201

FRAUD SHORT BIR INFO	
BIRID	402666445
LINKUSA CONNECT TIME	6/1420:46:22
CALL DURATION	0:39:18
BILL METHOD	PCC
BILL NUMBER	111111
ORIGINATING ANI	2014551111
CALLED NUMBER	7125551111
ACCESS NUMBER	8008641486
CALL JUR	INTERSTATE INTERLATA
CONSOLE NUMBER	1111
REORIGINATIONS MADE	5
GREENWICH MIN OFFSET	300
DAYLIGHT OBSERVED	YES
WHOLESALE COST	585
RETAIL COST	630
THEIR CONNECT TIME	6/14 21:46:38
CALL ACTIVE	NO
<ESC> CANCEL	

FIG 202

FRAUD MONITOR

VER 01.01

TIME TUE JUNE 15 09:56:01 BNU ALARM STATUS LOGGED IN TOT RCVD 23551

DURATION 1 DAYS 01:45:18 FBN ALARM STATUS LOGGED IN TOT SENT 23475

BILLED NUMBER USAGE ALARMS

ALARM TYPE	TIME	BILLNUM TYPE	BILLING NUMBER
OPEN SIM	19:46:33	800 NUMBER	7005555465
BILLNUM USAGE	19:47:22	LEC CARD	31936312341234
CALL DURATION	19:47:24	LEC CARD	31936598769876
ORIG NPA	19:48:22	PCC	80086414851234567
INTERNATIONAL	19:48:33	PCC	80086414851234567
OPEN SIM	19:48:34	PCC	80086414851234567

[BNU ALRMS] [BIRS]==FAILED BILLED NUMBER ALARMS==[BILLNUMS] [BNUTHRS]

ALARM TYPE	TIME	NUMBER TYPE	NUMBER
FBN ORIG USAGE	00:28:00	ORIG ANI	3193651234
FAILED BILL NUM	00:29:30	ORIG ANI	3193651234
FNB HOT TERM	00:30:00	TERM NUM	7083331111
FNB HOT ORIG	00:31:00	ORIG ANI	3192222222

=[FBN ALRMS]=[FBNS]=[FBN NUMS]=[FBN THRS]=[REPORTS]=[MUTE OFF]=[EXIT]=

FIG 203

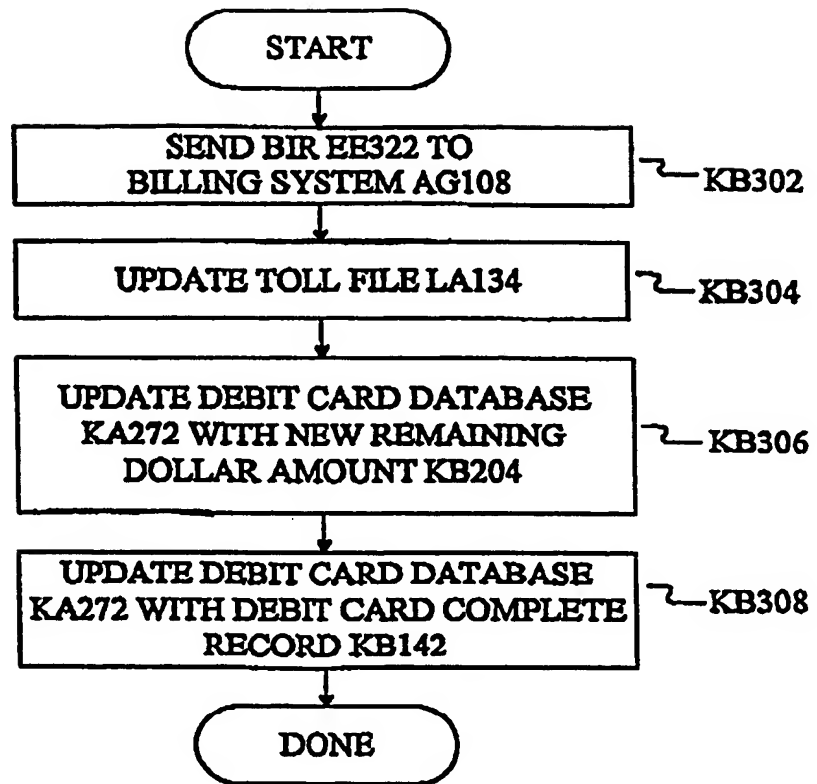


FIG 204

↓ VA100

MARK		JIM MOORE	LINKUSA	WAIT	07:21:42 AM
SCRIPT		ORIG			
<u>VA102</u>		<u>VA104</u>			
INFO		TERM			
<u>VA106</u>		<u>VA108</u>			
<F1>	<F2>	<F3>	<u>VA114</u> <F9>		

FIG 205

LINKUSA				
MARK	JIM MOORE	LIVE	07:22:29 AM	
SCRIPT MAY I HAVE THE AREA CODE AND NUMBER YOU ARE CALLING?		ORIG DURATION 00:00:20 LOCATION DIR ASST, IA LOC TIME 07:22:01 CARRIER ABC SERVICES NAME MARY SMITH PHONE 3193637570 CITY PERKINS, IA <u>VA104</u>		
<u>VA102</u> INFO CALL TYPE: LINKUSA ESC BILLING NUMBER: 1234567 CALLED NUMBER:		TERM NAME PHONE CITY TIME DURATION <u>VA108</u>		
<u>VA106</u>				
<F1 HELP>	<F2 LOGOUT>	<F3 MUTE>	<F4 FEATURE>	<F8 TRANSFER> <F9 NOTE> <F11 UTILITY>
VA114				

FIG 206

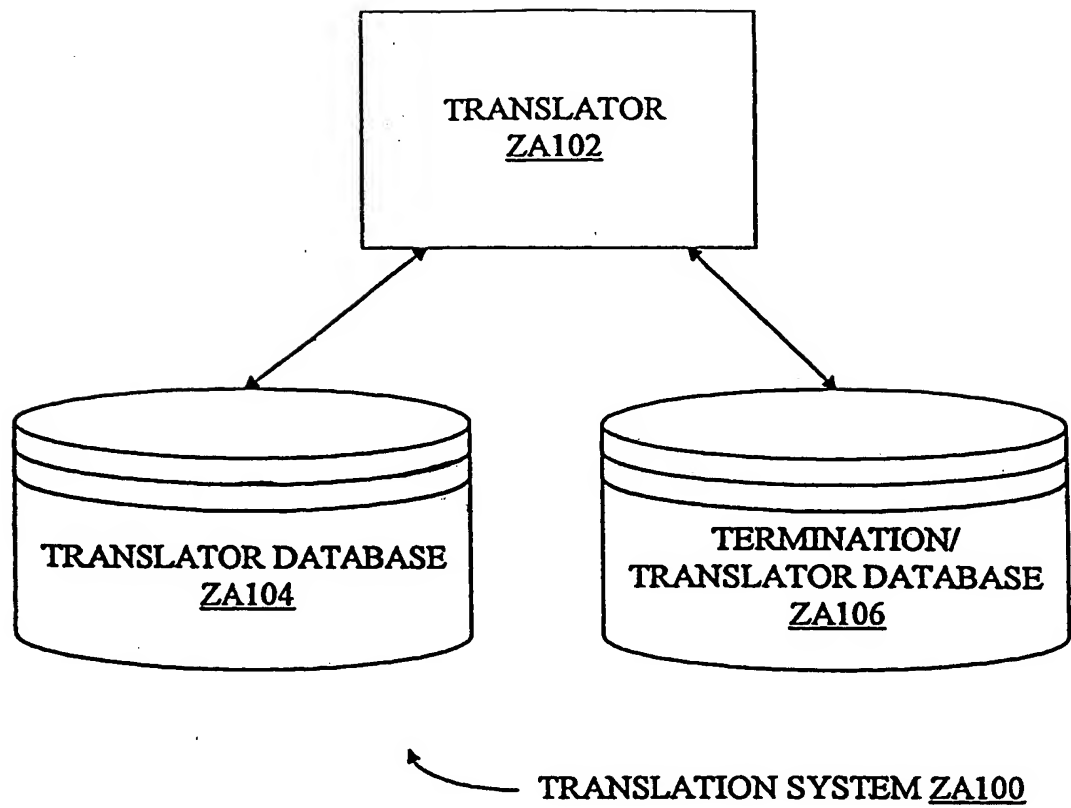


FIG 207